

| Object       | Property Name              | Property Value |
|--------------|----------------------------|----------------|
| Button Reset | Name                       | I00659         |
|              | Bounding Box Left          | 396            |
|              | Bounding Box Right         | 458            |
|              | Bounding Box Top           | 450            |
|              | Bounding Box Bottom        | 459            |
|              | Text                       | Button Reset   |
|              | Text Location X-Coordinate | 396            |
|              | Text Location Y-Coordinate | 450            |
|              | Font                       | Courier New    |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 507 ) | Name          | 3V3            |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 511 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 513 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 515 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 517 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 519 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 521 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 525 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 527 ) | IREF          | P[1,2,4]       |
|                          | Name          | 5V             |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD0 : AD0 (Wire ID = 529 ) | IREF          | P[1]           |
|                            | Name          | AD0            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD0 : AD0 (Wire ID = 531 ) | IREF          | P[1]           |
|                            | Name          | AD0            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD1 : AD1 (Wire ID = 533 ) | IREF          | P[1]           |
|                            | Name          | AD1            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD1 : AD1 (Wire ID = 535 ) | IREF          | P[1]           |
|                            | Name          | AD1            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD2 : AD2 (Wire ID = 537 ) | IREF          | P[1]           |
|                            | Name          | AD2            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD2 : AD2 (Wire ID = 539 ) | IREF          | P[1]           |
|                            | Name          | AD2            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD3 : AD3 (Wire ID = 541 ) | IREF          | P[1]           |
|                            | Name          | AD3            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD3 : AD3 (Wire ID = 543 ) | IREF          | P[1]           |
|                            | Name          | AD3            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD6 : AD6 (Wire ID = 545 ) | Name          | AD6            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| AD7 : AD7 (Wire ID = 547 ) | Name          | AD7            |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| CS : CS (Wire ID = 549 ) | IREF          | P[1]           |
|                          | Name          | CS             |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 551 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 553 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 555 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 557 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 559 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 561 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 563 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 565 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 569 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 571 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 573 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 575 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 577 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 579 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| GND : GND (Wire ID = 581 ) | IREF          | P[1,2,4,5]     |
|                            | Name          | GND            |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| IO10 : IO10 (Wire ID = 585 ) | IREF          | P[1]           |
|                              | Name          | IO10           |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| IO11 : IO11 (Wire ID = 587 ) | IREF          | P[1]           |
|                              | Name          | IO11           |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| IO12 : IO12 (Wire ID = 589 ) | Name          | IO12           |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| IO13 : IO13 (Wire ID = 591 ) | Name          | IO13           |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO2 : IO2 (Wire ID = 593 ) | IREF          | P[1]           |
|                            | Name          | IO2            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO3 : IO3 (Wire ID = 595 ) | IREF          | P[1]           |
|                            | Name          | IO3            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO4 : IO4 (Wire ID = 597 ) | Name          | IO4            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO5 : IO5 (Wire ID = 599 ) | IREF          | P[1]           |
|                            | Name          | IO5            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO6 : IO6 (Wire ID = 601 ) | IREF          | P[1]           |
|                            | Name          | IO6            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO7 : IO7 (Wire ID = 603 ) | Name          | IO7            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO8 : IO8 (Wire ID = 605 ) | IREF          | P[1,3]         |
|                            | Name          | IO8            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| IO9 : IO9 (Wire ID = 607 ) | IREF          | P[1]           |
|                            | Name          | IO9            |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| MISO : MISO (Wire ID = 609 ) | IREF          | P[1]           |
|                              | Name          | MISO           |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| MOSI : MOSI (Wire ID = 611 ) | IREF          | P[1]           |
|                              | Name          | MOSI           |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| RST : RST (Wire ID = 615 ) | IREF          | P[1]           |
|                            | Name          | RST            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| RST : RST (Wire ID = 617 ) | IREF          | P[1]           |
|                            | Name          | RST            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| RST : RST (Wire ID = 619 ) | IREF          | P[1]           |
|                            | Name          | RST            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| RST : RST (Wire ID = 621 ) | IREF          | P[1]           |
|                            | Name          | RST            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| RST : RST (Wire ID = 623 ) | IREF          | P[1]           |
|                            | Name          | RST            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| SCK : SCK (Wire ID = 625 ) | IREF          | P[1]           |
|                            | Name          | SCK            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| SCL : SCL (Wire ID = 627 ) | IREF          | P[1]           |
|                            | Name          | SCL            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| SCL : SCL (Wire ID = 629 ) | IREF          | P[1]           |
|                            | Name          | SCL            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| SDA : SDA (Wire ID = 631 ) | IREF          | P[1]           |
|                            | Name          | SDA            |

| Object                     | Property Name | Property Value |
|----------------------------|---------------|----------------|
| SDA : SDA (Wire ID = 633 ) | IREF          | P[1]           |
|                            | Name          | SDA            |

| Object                           | Property Name | Property Value |
|----------------------------------|---------------|----------------|
| USB_RX : USB_RX (Wire ID = 635 ) | IREF          | P[1]           |
|                                  | Name          | USB_RX         |

| Object                           | Property Name | Property Value |
|----------------------------------|---------------|----------------|
| USB_RX : USB_RX (Wire ID = 637 ) | IREF          | P[1]           |
|                                  | Name          | USB_RX         |

| Object                           | Property Name | Property Value |
|----------------------------------|---------------|----------------|
| USB_TX : USB_TX (Wire ID = 639 ) | IREF          | P[1]           |
|                                  | Name          | USB_TX         |

| Object                           | Property Name | Property Value |
|----------------------------------|---------------|----------------|
| USB_TX : USB_TX (Wire ID = 641 ) | IREF          | P[1]           |
|                                  | Name          | USB_TX         |

| Object                         | Property Name | Property Value |
|--------------------------------|---------------|----------------|
| XTAL1 : XTAL1 (Wire ID = 643 ) | IREF          | P[1]           |
|                                | Name          | XTAL1          |

| Object                         | Property Name | Property Value |
|--------------------------------|---------------|----------------|
| XTAL1 : XTAL1 (Wire ID = 645 ) | IREF          | P[1]           |
|                                | Name          | XTAL1          |

| Object                         | Property Name | Property Value |
|--------------------------------|---------------|----------------|
| XTAL2 : XTAL2 (Wire ID = 651 ) | IREF          | P[1]           |
|                                | Name          | XTAL2          |

| Object                         | Property Name | Property Value |
|--------------------------------|---------------|----------------|
| XTAL2 : XTAL2 (Wire ID = 653 ) | IREF          | P[1]           |
|                                | Name          | XTAL2          |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| 5V     | Name                 | 5V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | VCC   |
|        | OriginalSymbolOrigin | (-10,10)  |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| 3V3    | Name                 | 3V3   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | VCC   |
|        | OriginalSymbolOrigin | (-10,10)  |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| RST : RST | Name          | RST            |
|           | Net ID        | 4288           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO2 : IO2 | Name          | IO2            |
|           | Net ID        | 4244           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO3 : IO3 | Name          | IO3            |
|           | Net ID        | 4233           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO4 : IO4 | Name          | IO4            |
|           | Net ID        | 4291           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO5 : IO5 | Name          | IO5            |
|           | Net ID        | 4220           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| SDA : SDA | Name          | SDA            |
|           | Net ID        | 4302           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| SCL : SCL | Name          | SCL            |
|           | Net ID        | 4292           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD2 : AD2 | Name          | AD2            |
|           | Net ID        | 4279           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD1 : AD1 | Name          | AD1            |
|           | Net ID        | 4286           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD0 : AD0 | Name          | AD0            |
|           | Net ID        | 4296           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO9 : IO9 | Name          | IO9            |
|           | Net ID        | 4223           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| IO10 : IO10 | Name          | IO10           |
|             | Net ID        | 4224           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| IO11 : IO11 | Name          | IO11           |
|             | Net ID        | 4240           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO8 : IO8 | Name          | IO8            |
|           | Net ID        | 4241           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| SDA : SDA | Name          | SDA            |
|           | Net ID        | 4302           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| SCL : SCL | Name          | SCL            |
|           | Net ID        | 4292           |



| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD0 : AD0 | Name          | AD0            |
|           | Net ID        | 4296           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD1 : AD1 | Name          | AD1            |
|           | Net ID        | 4286           |

| Object  | Property Name | Property Value |
|---------|---------------|----------------|
| CS : CS | Name          | CS             |
|         | Net ID        | 4266           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| RST : RST | Name          | RST            |
|           | Net ID        | 4288           |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| USB_TX : USB_TX | Name          | USB_TX         |
|                 | Net ID        | 4253           |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| USB_RX : USB_RX | Name          | USB_RX         |
|                 | Net ID        | 4248           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO6 : IO6 | Name          | IO6            |
|           | Net ID        | 4222           |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| USB_RX : USB_RX | Name          | USB_RX         |
|                 | Net ID        | 4248           |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| USB_TX : USB_TX | Name          | USB_TX         |
|                 | Net ID        | 4253           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD2 : AD2 | Name          | AD2            |
|           | Net ID        | 4279           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD3 : AD3 | Name          | AD3            |
|           | Net ID        | 4294           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| MOSI : MOSI | Name          | MOSI           |
|             | Net ID        | 4270           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| MISO : MISO | Name          | MISO           |
|             | Net ID        | 4260           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| SCK : SCK | Name          | SCK            |
|           | Net ID        | 4261           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| IO12 : IO12 | Name          | IO12           |
|             | Net ID        | 4299           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| IO13 : IO13 | Name          | IO13           |
|             | Net ID        | 4283           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD3 : AD3 | Name          | AD3            |
|           | Net ID        | 4294           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO7 : IO7 | Name          | IO7            |
|           | Net ID        | 4275           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD6 : AD6 | Name          | AD6            |
|           | Net ID        | 4295           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| AD7 : AD7 | Name          | AD7            |
|           | Net ID        | 4297           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| RST : RST | Name          | RST            |
|           | Net ID        | 4288           |

| Object                    | Property Name         | Property Value   |
|---------------------------|-----------------------|--|
| TitleBlock0 : TitleBlock0 | Path Name             | TitleBlock0  |
|                           | Schematic Path        | /  |
|                           | ID                    | 105  |
|                           | Page Create Date      | Monday, October 28, 2024                               |
|                           | Page Create Time      | 10:00:28   |
|                           | Design Create Date    | Monday, October 28, 2024                               |
|                           | Design Create Time    | 09:59:52   |
|                           | Schematic Create Date | Monday, October 28, 2024                               |
|                           | Schematic Create Time | 09:59:54   |
|                           | Doc                   | MCU SCHEMATIC  |
|                           | OrgAddr4              |  |
|                           | OrgAddr3              |  |
|                           | OrgAddr2              |  |
|                           | OrgAddr1              |  |
|                           | OrgName               |  |
|                           | Cage Code             |  |
|                           | RevCode               | Design by Mai Xuan Canh                                |
|                           | Page Count            | 5  |
|                           | Title                 | CNC MACHINE DEVELOP BOARD                              |
|                           | TITLEBLOCK0           |  |
|                           | Name                  | TitleBlock0  |
|                           | Design Name           | CNCMACHINE   |
|                           | Design File Name      | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Design Modify Date    | Sunday, November 10, 2024                              |
|                           | Design Modify Time    | 19:08:32   |
|                           | Schematic Name        | SCHEMATIC1   |
|                           | Schematic Modify Date | Sunday, November 10, 2024                              |
|                           | Schematic Modify Time | 19:08:34   |
|                           | Schematic Page Count  | 0  |
|                           | Schematic Page Number | 0  |
|                           | Page Size             | A  |
|                           | Page Modify Date      | Sunday, November 10, 2024                              |
|                           | Page Modify Time      | 19:08:32   |
|                           | Source Library        | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Source Symbol         | TITLEBLOCK0  |
|                           | Page Name             | MAIN   |
|                           | OriginalSymbolOrigin  | (0,0)  |
|                           | Page Number           | 1  |

| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS309 : J16 | Name                 | INS309  |
|              | ID                   | 110   |
|              | Reference            | J16   |
|              | Designator           |   |
|              | Part Reference       | J16   |
|              | Value                | FFMD-08-X-X-X   |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | SAMTEC_IDMD-08-X-X  |
|              | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/FFMD-08-D-10.00-01/Samtec/view-part/?ref=1">https://www.snapeda.com/parts/FFMD-08-D-10.00-01/Samtec/view-part/?ref=1</a> |
|              | Description          | Cable Assembly Flat Ribbon 30AWG 0.25m 1  |
|              | Package              | None  |
|              | MF                   | Samtec  |
|              | MP                   | FFMD-08-D-10.00-01  |
|              | Check_prices         | <a href="https://www.snapeda.com/parts/FFMD-08-D-10.00-01/Samtec/view-part/?ref=1">https://www.snapeda.com/parts/FFMD-08-D-10.00-01/Samtec/view-part/?ref=1</a> |
|              | OriginalSymbolOrigin | (0,0)   |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 01 : J16/01 | Name          | 01             |
|             | Number        | 01             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | 5V             |
|             | Order         | 0              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 02 : J16/02 | Name          | 02             |
|             | Number        | 02             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | USB_RX         |
|             | Order         | 1              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 03 : J16/03 | Name          | 03             |
|             | Number        | 03             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | SCL            |
|             | Order         | 2              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 04 : J16/04 | Name          | 04             |
|             | Number        | 04             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | USB_TX         |
|             | Order         | 3              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 05 : J16/05 | Name          | 05             |
|             | Number        | 05             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | SDA            |
|             | Order         | 4              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 06 : J16/06 | Name          | 06             |
|             | Number        | 06             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | RST            |
|             | Order         | 5              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 07 : J16/07 | Name          | 07             |
|             | Number        | 07             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | AD0            |
|             | Order         | 6              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 08 : J16/08 | Name          | 08             |
|             | Number        | 08             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | CS             |
|             | Order         | 7              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 09 : J16/09 | Name          | 09             |
|             | Number        | 09             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | AD1            |
|             | Order         | 8              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 10 : J16/10 | Name          | 10             |
|             | Number        | 10             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | SCK            |
|             | Order         | 9              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 11 : J16/11 | Name          | 11             |
|             | Number        | 11             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | AD2            |
|             | Order         | 10             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 12 : J16/12 | Name          | 12             |
|             | Number        | 12             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | MISO           |
|             | Order         | 11             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 13 : J16/13 | Name          | 13             |
|             | Number        | 13             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | AD3            |
|             | Order         | 12             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 14 : J16/14 | Name          | 14             |
|             | Number        | 14             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | MOSI           |
|             | Order         | 13             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 15 : J16/15 | Name          | 15             |
|             | Number        | 15             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | 3V3            |
|             | Order         | 14             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 16 : J16/16 | Name          | 16             |
|             | Number        | 16             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | GND            |
|             | Order         | 15             |
|             | Is No Connect | False          |

| Object      | Property Name        | Property Value |
|-------------|----------------------|----------------|
| INS351 : S4 | Name                 | INS351         |
|             | ID                   | 127            |
|             | Reference            | S4             |
|             | Designator           |                |
|             | Part Reference       | S4             |
|             | Value                | 4.2x3.3mm      |
|             | Primitive            | DEFAULT        |
|             | Implementation Type  | <none>         |
|             | Implementation       |                |
|             | Implementation Path  |                |
|             | PCB Footprint        | SW_SKRSPACE010 |
|             | OriginalSymbolOrigin | (10,0)         |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 1 : S4/1 | Name          | 1              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Bidirectional  |
|          | Net Name      | RST            |
|          | Order         | 0              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 2 : S4/2 | Name          | 2              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Bidirectional  |
|          | Net Name      | GND            |
|          | Order         | 1              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 3 : S4/3 | Name          | 3              |
|          | Number        | 3              |
|          | Swap Id       | -1             |
|          | Type          | Bidirectional  |
|          | Net Name      | RST            |
|          | Order         | 2              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 4 : S4/4 | Name          | 4              |
|          | Number        | 4              |
|          | Swap Id       | -1             |
|          | Type          | Bidirectional  |
|          | Net Name      | GND            |
|          | Order         | 3              |
|          | Is No Connect | False          |

| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS251 : J25 | Name                 | INS251  |
|              | ID                   | 132   |
|              | Reference            | J25   |
|              | Designator           |   |
|              | Part Reference       | J25   |
|              | Value                | TMS-101-21-G-S  |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | SAMTEC_TMS-101-21-G-S   |
|              | Purchase_URL         | <a href="https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda">https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda</a> |
|              | Price                | None  |
|              | Package              | None  |
|              | OriginalSymbolOrigin | (0,0)   |
|              | MP                   | TMS-101-21-G-S  |
|              | MF                   | Samtec  |
|              | Description          | Connector Header Through Hole 1 position  |
|              | Availability         | In Stock  |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 03 : J25/03 | Name          | 03             |
|             | Number        | 03             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      |                |
|             | Order         | 0              |
|             | Is No Connect | True           |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS263 : C35 | Name                 | INS263           |
|              | ID                   | 134              |
|              | Reference            | C35              |
|              | Designator           |                  |
|              | Part Reference       | C35              |
|              | Value                | 100nF            |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C35/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N002630        |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C35/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 1              |
|           | Is No Connect | False          |



| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS469 : J31 | Name                 | INS469  |
|              | ID                   | 137   |
|              | Reference            | J31   |
|              | Designator           |   |
|              | Part Reference       | J31   |
|              | Value                | TMS-101-21-G-S  |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | SAMTEC_TMS-101-21-G-S   |
|              | Availability         | In Stock  |
|              | Description          | Connector Header Through Hole 1 position  |
|              | MF                   | Samtec  |
|              | MP                   | TMS-101-21-G-S  |
|              | OriginalSymbolOrigin | (0,0)   |
|              | Package              | None  |
|              | Price                | None  |
|              | Purchase_URL         | <a href="https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda">https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda</a> |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 03 : J31/03 | Name          | 03             |
|             | Number        | 03             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      |                |
|             | Order         | 0              |
|             | Is No Connect | True           |
|             |               |                |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS369 : C37 | Name                 | INS369           |
|              | ID                   | 139              |
|              | Reference            | C37              |
|              | Designator           |                  |
|              | Part Reference       | C37              |
|              | Value                | 22pF             |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C37/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | XTAL2          |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C37/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS277 : C34 | Name                 | INS277           |
|              | ID                   | 142              |
|              | Reference            | C34              |
|              | Designator           |                  |
|              | Part Reference       | C34              |
|              | Value                | 100nF            |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C34/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C34/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS481 : J26 | Name                 | INS481  |
|              | ID                   | 145   |
|              | Reference            | J26   |
|              | Designator           |   |
|              | Part Reference       | J26   |
|              | Value                | TMS-101-21-G-S  |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | SAMTEC_TMS-101-21-G-S   |
|              | Purchase_URL         | <a href="https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda">https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda</a> |
|              | Price                | None  |
|              | Package              | None  |
|              | OriginalSymbolOrigin | (0,0)   |
|              | MP                   | TMS-101-21-G-S  |
|              | MF                   | Samtec  |
|              | Description          | Connector Header Through Hole 1 position  |
|              | Availability         | In Stock  |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 03 : J26/03 | Name          | 03             |
|             | Number        | 03             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      |                |
|             | Order         | 0              |
|             | Is No Connect | True           |
|             |               |                |

| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS383 : J27 | Name                 | INS383  |
|              | ID                   | 147   |
|              | Reference            | J27   |
|              | Designator           |   |
|              | Part Reference       | J27   |
|              | Value                | TMS-101-21-G-S  |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | SAMTEC_TMS-101-21-G-S   |
|              | Purchase_URL         | <a href="https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda">https://pricing.snapeda.com/search/part/TMS-101-21-G-S/?ref=eda</a> |
|              | Price                | None  |
|              | Package              | None  |
|              | OriginalSymbolOrigin | (0,0)   |
|              | MP                   | TMS-101-21-G-S  |
|              | MF                   | Samtec  |
|              | Description          | Connector Header Through Hole 1 position  |
|              | Availability         | In Stock  |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 03 : J27/03 | Name          | 03             |
|             | Number        | 03             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      |                |
|             | Order         | 0              |
|             | Is No Connect | True           |

| Object      | Property Name        | Property Value              |
|-------------|----------------------|-----------------------------|
| INS291 : Y6 | Name                 | INS291                      |
|             | ID                   | 152                         |
|             | Reference            | Y6                          |
|             | Designator           |                             |
|             | Part Reference       | Y6                          |
|             | Value                | 16Mhz 5032                  |
|             | Primitive            | DEFAULT                     |
|             | Implementation Type  | <none>                      |
|             | Implementation       |                             |
|             | Implementation Path  |                             |
|             | PCB Footprint        | XTAL_ECS-2712-10-30B-RWY-TR |
|             | OriginalSymbolOrigin | (0,0)                       |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| IN/OUT : Y6/IN/OUT | Name          | IN/OUT         |
|                    | Number        | 1              |
|                    | Swap Id       | -1             |
|                    | Type          | Bidirectional  |
|                    | Net Name      | XTAL1          |
|                    | Order         | 0              |
|                    | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : Y6/GND | Name          | GND            |
|              | Number        | 2              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 1              |
|              | Is No Connect | False          |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| OUT/IN : Y6/OUT/IN | Name          | OUT/IN         |
|                    | Number        | 3              |
|                    | Swap Id       | -1             |
|                    | Type          | Bidirectional  |
|                    | Net Name      | XTAL2          |
|                    | Order         | 2              |
|                    | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : Y6/GND | Name          | GND            |
|              | Number        | 4              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 3              |
|              | Is No Connect | False          |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS493 : C36 | Name                 | INS493           |
|              | ID                   | 149              |
|              | Reference            | C36              |
|              | Designator           |                  |
|              | Part Reference       | C36              |
|              | Value                | 22pF             |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C36/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | XTAL1          |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C36/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object      | Property Name        | Property Value        |
|-------------|----------------------|-----------------------|
| INS395 : U4 | Name                 | INS395                |
|             | ID                   | 157                   |
|             | Reference            | U4                    |
|             | Designator           |                       |
|             | Part Reference       | U4                    |
|             | Value                | ATMEGA328P-AN         |
|             | Primitive            | DEFAULT               |
|             | Implementation Type  | <none>                |
|             | Implementation       |                       |
|             | Implementation Path  |                       |
|             | PCB Footprint        | QFP80P900X900X120-32N |
|             | OriginalSymbolOrigin | (0,0)                 |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD3 : U4/PD3 | Name          | PD3            |
|              | Number        | 1              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO3            |
|              | Order         | 0              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD4 : U4/PD4 | Name          | PD4            |
|              | Number        | 2              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO4            |
|              | Order         | 1              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : U4/GND | Name          | GND            |
|              | Number        | 3              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 2              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| VCC : U4/VCC | Name          | VCC            |
|              | Number        | 4              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | 5V             |
|              | Order         | 3              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : U4/GND | Name          | GND            |
|              | Number        | 5              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 4              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| VCC : U4/VCC | Name          | VCC            |
|              | Number        | 6              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | 5V             |
|              | Order         | 5              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB6 : U4/PB6 | Name          | PB6            |
|              | Number        | 7              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | XTAL1          |
|              | Order         | 6              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB7 : U4/PB7 | Name          | PB7            |
|              | Number        | 8              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | XTAL2          |
|              | Order         | 7              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD5 : U4/PD5 | Name          | PD5            |
|              | Number        | 9              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO5            |
|              | Order         | 8              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD6 : U4/PD6 | Name          | PD6            |
|              | Number        | 10             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO6            |
|              | Order         | 9              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD7 : U4/PD7 | Name          | PD7            |
|              | Number        | 11             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO7            |
|              | Order         | 10             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB0 : U4/PB0 | Name          | PB0            |
|              | Number        | 12             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO8            |
|              | Order         | 11             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB1 : U4/PB1 | Name          | PB1            |
|              | Number        | 13             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO9            |
|              | Order         | 12             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB2 : U4/PB2 | Name          | PB2            |
|              | Number        | 14             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO10           |
|              | Order         | 13             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB3 : U4/PB3 | Name          | PB3            |
|              | Number        | 15             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO11           |
|              | Order         | 14             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB4 : U4/PB4 | Name          | PB4            |
|              | Number        | 16             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO12           |
|              | Order         | 15             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PB5 : U4/PB5 | Name          | PB5            |
|              | Number        | 17             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO13           |
|              | Order         | 16             |
|              | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| AVCC : U4/AVCC | Name          | AVCC           |
|                | Number        | 18             |
|                | Swap Id       | -1             |
|                | Type          | Power          |
|                | Net Name      | 5V             |
|                | Order         | 17             |
|                | Is No Connect | False          |



| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| ADC6 : U4/ADC6 | Name          | ADC6           |
|                | Number        | 19             |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | AD6            |
|                | Order         | 18             |
|                | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| AREF : U4/AREF | Name          | AREF           |
|                | Number        | 20             |
|                | Swap Id       | -1             |
|                | Type          | Input          |
|                | Net Name      | N002630        |
|                | Order         | 19             |
|                | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : U4/GND | Name          | GND            |
|              | Number        | 21             |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 20             |
|              | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| ADC7 : U4/ADC7 | Name          | ADC7           |
|                | Number        | 22             |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | AD7            |
|                | Order         | 21             |
|                | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PC0 : U4/PC0 | Name          | PC0            |
|              | Number        | 23             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | AD0            |
|              | Order         | 22             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PC1 : U4/PC1 | Name          | PC1            |
|              | Number        | 24             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | AD1            |
|              | Order         | 23             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PC2 : U4/PC2 | Name          | PC2            |
|              | Number        | 25             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | AD2            |
|              | Order         | 24             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PC3 : U4/PC3 | Name          | PC3            |
|              | Number        | 26             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | AD3            |
|              | Order         | 25             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PC4 : U4/PC4 | Name          | PC4            |
|              | Number        | 27             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | SCL            |
|              | Order         | 26             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PC5 : U4/PC5 | Name          | PC5            |
|              | Number        | 28             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | SDA            |
|              | Order         | 27             |
|              | Is No Connect | False          |

| Object                   | Property Name | Property Value |
|--------------------------|---------------|----------------|
| PC6/RESET : U4/PC6/RESET | Name          | PC6/RESET      |
|                          | Number        | 29             |
|                          | Swap Id       | -1             |
|                          | Type          | Bidirectional  |
|                          | Net Name      | RST            |
|                          | Order         | 28             |
|                          | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD0 : U4/PD0 | Name          | PD0            |
|              | Number        | 30             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | USB_RX         |
|              | Order         | 29             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD1 : U4/PD1 | Name          | PD1            |
|              | Number        | 31             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | USB_TX         |
|              | Order         | 30             |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| PD2 : U4/PD2 | Name          | PD2            |
|              | Number        | 32             |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | IO2            |
|              | Order         | 31             |
|              | Is No Connect | False          |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1187 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1189 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1191 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1193 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1195 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 1199 ) | Name          | 3V3            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 1201 ) | Name          | 3V3            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 1203 ) | Name          | 3V3            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 1205 ) | Name          | 3V3            |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1209 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1211 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1215 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1217 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1219 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1221 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1223 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1233 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1235 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1237 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1239 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1241 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1243 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1245 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1247 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1249 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1251 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1253 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1255 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1257 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1259 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1261 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1265 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1271 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1273 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1275 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1277 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1279 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1283 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1285 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1287 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1289 ) | Name          | H_GND          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| H_GND : H_GND (Wire ID = 1293 ) | Name          | H_GND          |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01297 : N01297 (Wire ID = 1297 ) | Name          | N01297         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01299 : N01299 (Wire ID = 1299 ) | Name          | N01299         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01301 : N01301 (Wire ID = 1301 ) | Name          | N01301         |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| VIN : VIN (Wire ID = 1305 ) | Name          | VIN            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| VIN : VIN (Wire ID = 1307 ) | Name          | VIN            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| VIN : VIN (Wire ID = 1309 ) | Name          | VIN            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| VIN : VIN (Wire ID = 1311 ) | Name          | VIN            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| VIN : VIN (Wire ID = 1315 ) | Name          | VIN            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| VIN : VIN (Wire ID = 1317 ) | Name          | VIN            |

| Object                         | Property Name | Property Value |
|--------------------------------|---------------|----------------|
| VOUT : VOUT* (Wire ID = 1323 ) | Name          | VOUT           |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| VOUT : VOUT (Wire ID = 1325 ) | Name          | VOUT           |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| VOUT : VOUT (Wire ID = 1327 ) | Name          | VOUT           |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 3V3    | Name                 | 3V3  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 12V    | Name                 | 12V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 12V    | Name                 | 12V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 3V3    | Name                 | 3V3  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 12V    | Name                 | 12V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 12V    | Name                 | 12V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |



| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| H_GND  | Name                 | H_GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND_SIGNAL   |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| H_GND  | Name                 | H_GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND_SIGNAL   |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| H_GND  | Name                 | H_GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND_SIGNAL   |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| H_GND  | Name                 | H_GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND_SIGNAL   |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object                    | Property Name         | Property Value   |
|---------------------------|-----------------------|--|
| TitleBlock0 : TitleBlock0 | Path Name             | TitleBlock0  |
|                           | Schematic Path        | /  |
|                           | ID                    | 106  |
|                           | Page Create Date      | Monday, October 28, 2024                               |
|                           | Page Create Time      | 09:59:52   |
|                           | Design Create Date    | Monday, October 28, 2024                               |
|                           | Design Create Time    | 09:59:52   |
|                           | Schematic Create Date | Monday, October 28, 2024                               |
|                           | Schematic Create Time | 09:59:54   |
|                           | Doc                   | POWER SCHEMATIC  |
|                           | Page Number           | 2  |
|                           | OrgAddr4              |  |
|                           | OrgAddr3              |  |
|                           | OrgAddr2              |  |
|                           | OrgAddr1              |  |
|                           | OrgName               |  |
|                           | Cage Code             |  |
|                           | RevCode               | Design by Mai Xuan Canh                                |
|                           | Page Count            | 5  |
|                           | Title                 | CNC MACHINE DEVELOP BOARD                              |
|                           | TITLEBLOCK0           |  |
|                           | Name                  | TitleBlock0  |
|                           | Design Name           | CNCMACHINE   |
|                           | Design File Name      | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Design Modify Date    | Sunday, November 10, 2024                              |
|                           | Design Modify Time    | 19:08:32   |
|                           | Schematic Name        | SCHEMATIC1   |
|                           | Schematic Modify Date | Sunday, November 10, 2024                              |
|                           | Schematic Modify Time | 19:08:34   |
|                           | Schematic Page Count  | 0  |
|                           | Schematic Page Number | 0  |
|                           | Page Size             | A  |
|                           | Page Modify Date      | Sunday, November 10, 2024                              |
|                           | Page Modify Time      | 19:08:32   |
|                           | Source Library        | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Source Symbol         | TITLEBLOCK0  |
|                           | Page Name             | POWER  |
|                           | OriginalSymbolOrigin  | (0,0)  |

| Object       | Property Name        | Property Value    |
|--------------|----------------------|-------------------|
| INS1115 : S5 | Name                 | INS1115           |
|              | ID                   | 190               |
|              | Reference            | S5                |
|              | Designator           |                   |
|              | Part Reference       | S5                |
|              | Value                | SSP1S1M2          |
|              | Primitive            | DEFAULT           |
|              | Implementation Type  | <none>            |
|              | Implementation       |                   |
|              | Implementation Path  |                   |
|              | PCB Footprint        | SW_500SSP1S1M2REA |
|              | OriginalSymbolOrigin | (0,0)             |

| Object     | Property Name | Property Value |
|------------|---------------|----------------|
| NC : S5/NC | Name          | NC             |
|            | Number        | 1              |
|            | Swap Id       | -1             |
|            | Type          | Passive        |
|            | Net Name      | N008630        |
|            | Order         | 0              |
|            | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| COM : S5/COM | Name          | COM            |
|              | Number        | 2              |
|              | Swap Id       | -1             |
|              | Type          | Passive        |
|              | Net Name      | 12V            |
|              | Order         | 1              |
|              | Is No Connect | False          |

| Object     | Property Name | Property Value |
|------------|---------------|----------------|
| NO : S5/NO | Name          | NO             |
|            | Number        | 3              |
|            | Swap Id       | -1             |
|            | Type          | Passive        |
|            | Net Name      |                |
|            | Order         | 2              |
|            | Is No Connect | True           |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS1017 : R15 | Name                 | INS1017        |
|               | ID                   | 194            |
|               | Reference            | R15            |
|               | Designator           |                |
|               | Part Reference       | R15            |
|               | Value                | 10K            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R15/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N01301         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R15/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 12V            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value |
|--------------|----------------------|----------------|
| INS919 : FL4 | Name                 | INS919         |
|              | ID                   | 197            |
|              | Reference            | FL4            |
|              | Designator           |                |
|              | Part Reference       | FL4            |
|              | Value                | BLM18SG121TN1D |
|              | Primitive            | DEFAULT        |
|              | Implementation Type  | <none>         |
|              | Implementation       |                |
|              | Implementation Path  |                |
|              | PCB Footprint        | BEADC1608X65N  |
|              | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : FL4/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : FL4/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS1131 : C26 | Name                 | INS1131          |
|               | ID                   | 200              |
|               | Reference            | C26              |
|               | Designator           |                  |
|               | Part Reference       | C26              |
|               | Value                | 100nF            |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C26/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C26/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 3V3            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value        |
|---------------|----------------------|-----------------------|
| INS1031 : VR3 | Name                 | INS1031               |
|               | ID                   | 203                   |
|               | Reference            | VR3                   |
|               | Designator           |                       |
|               | Part Reference       | VR3                   |
|               | Value                | LM1117MPX-33NOPB      |
|               | Primitive            | DEFAULT               |
|               | Implementation Type  | <none>                |
|               | Implementation       |                       |
|               | Implementation Path  |                       |
|               | PCB Footprint        | VREG_LM1117MPX-33NOPB |
|               | OriginalSymbolOrigin | (0,0)                 |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : VR3/GND | Name          | GND            |
|               | Number        | 1              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 0              |
|               | Is No Connect | False          |

| Object              | Property Name | Property Value |
|---------------------|---------------|----------------|
| VOUT_2 : VR3/VOUT_2 | Name          | VOUT_2         |
|                     | Number        | 2              |
|                     | Swap Id       | -1             |
|                     | Type          | Output         |
|                     | Net Name      | 3V3            |
|                     | Order         | 1              |
|                     | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VIN : VR3/VIN | Name          | VIN            |
|               | Number        | 3              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | 5V             |
|               | Order         | 2              |
|               | Is No Connect | False          |

| Object              | Property Name | Property Value |
|---------------------|---------------|----------------|
| VOUT_4 : VR3/VOUT_4 | Name          | VOUT_4         |
|                     | Number        | 4              |
|                     | Swap Id       | -1             |
|                     | Type          | Output         |
|                     | Net Name      | 3V3            |
|                     | Order         | 3              |
|                     | Is No Connect | False          |

| Object       | Property Name        | Property Value |
|--------------|----------------------|----------------|
| INS933 : R13 | Name                 | INS933         |
|              | ID                   | 208            |
|              | Reference            | R13            |
|              | Designator           |                |
|              | Part Reference       | R13            |
|              | Value                | 1k5            |
|              | Primitive            | DEFAULT        |
|              | Implementation Type  | <none>         |
|              | Implementation       |                |
|              | Implementation Path  |                |
|              | PCB Footprint        | RESC1508X55N   |
|              | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R13/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N01297         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R13/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 3V3            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS1145 : C23 | Name                 | INS1145          |
|               | ID                   | 211              |
|               | Reference            | C23              |
|               | Designator           |                  |
|               | Part Reference       | C23              |
|               | Value                | 10uF 0603        |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C23/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C23/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | VIN            |
|           | Order         | 1              |
|           | Is No Connect | False          |
|           |               |                |

| Object      | Property Name        | Property Value  |
|-------------|----------------------|---|
| INS947 : D4 | Name                 | INS947  |
|             | ID                   | 214   |
|             | Reference            | D4  |
|             | Designator           |   |
|             | Part Reference       | D4  |
|             | Value                | 0603  |
|             | Primitive            | DEFAULT   |
|             | Implementation Type  | <none>  |
|             | Implementation       |   |
|             | Implementation Path  |   |
|             | PCB Footprint        | LED_KP-1608SURCK  |
|             | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|             | Description          | LED; SMD; 0603; red; 50-150mcd; 1.6x0.8mm; 120; 20mA;   |
|             | Package              | 0603 Kingbright   |
|             | MF                   | Kingbright  |
|             | MP                   | KP-1608SURCK  |
|             | Check_prices         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|             | OriginalSymbolOrigin | (0,0)   |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| A : D4/A | Name          | A              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | N01301         |
|          | Order         | 0              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| C : D4/C | Name          | C              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | GND            |
|          | Order         | 1              |
|          | Is No Connect | False          |

| Object        | Property Name        | Property Value  |
|---------------|----------------------|---|
| INS1049 : J35 | Name                 | INS1049   |
|               | ID                   | 217   |
|               | Reference            | J35   |
|               | Designator           |   |
|               | Part Reference       | J35   |
|               | Value                | PJ-035D   |
|               | Primitive            | DEFAULT   |
|               | Implementation Type  | <none>  |
|               | Implementation       |   |
|               | Implementation Path  |   |
|               | PCB Footprint        | CUI_PJ-035D   |
|               | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/PJ-035D/Same+Sky/view-part/?ref=snap">https://www.snapeda.com/parts/PJ-035D/Same+Sky/view-part/?ref=snap</a> |
|               | Description          | 1.3 x 3.8 mm, 2.0 A, Horizontal, Through Hole   |
|               | Package              | None  |
|               | MF                   | Same Sky  |
|               | MP                   | PJ-035D   |
|               | Check_prices         | <a href="https://www.snapeda.com/parts/PJ-035D/Same+Sky/view-part/?ref=eda">https://www.snapeda.com/parts/PJ-035D/Same+Sky/view-part/?ref=eda</a>   |
|               | OriginalSymbolOrigin | (0,0)   |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J35/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 12V            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J35/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 1              |
|           | Is No Connect | False          |



| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 3 : J35/3 | Name          | 3              |
|           | Number        | 3              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 2              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value |
|--------------|----------------------|----------------|
| INS849 : D10 | Name                 | INS849         |
|              | ID                   | 221            |
|              | Reference            | D10            |
|              | Designator           |                |
|              | Part Reference       | D10            |
|              | Value                | TVS            |
|              | Primitive            | DEFAULT        |
|              | Implementation Type  | <none>         |
|              | Implementation       |                |
|              | Implementation Path  |                |
|              | PCB Footprint        | SMB_NOPOL      |
|              | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : D10/1 | Name          | 1              |
|           | Number        | A              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | VIN            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : D10/2 | Name          | 2              |
|           | Number        | C              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value        |
|---------------|----------------------|-----------------------|
| INS1159 : C22 | Name                 | INS1159               |
|               | ID                   | 224                   |
|               | Reference            | C22                   |
|               | Designator           |                       |
|               | Part Reference       | C22                   |
|               | Value                | 680uF/25V             |
|               | Primitive            | DEFAULT               |
|               | Implementation Type  | <none>                |
|               | Implementation       |                       |
|               | Implementation Path  |                       |
|               | PCB Footprint        | CAPPRD500W50D630H1120 |
|               | OriginalSymbolOrigin | (0,0)                 |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| N : C22/N | Name          | N              |
|           | Number        | N              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| P : C22/P | Name          | P              |
|           | Number        | P              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | VIN            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value        |
|--------------|----------------------|-----------------------|
| INS961 : C24 | Name                 | INS961                |
|              | ID                   | 227                   |
|              | Reference            | C24                   |
|              | Designator           |                       |
|              | Part Reference       | C24                   |
|              | Value                | 220uF/16V             |
|              | Primitive            | DEFAULT               |
|              | Implementation Type  | <none>                |
|              | Implementation       |                       |
|              | Implementation Path  |                       |
|              | PCB Footprint        | CAPPRD500W50D630H1120 |
|              | OriginalSymbolOrigin | (0,0)                 |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| N : C24/N | Name          | N              |
|           | Number        | N              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| P : C24/P | Name          | P              |
|           | Number        | P              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object      | Property Name        | Property Value   |
|-------------|----------------------|------------------|
| INS863 : F1 | Name                 | INS863           |
|             | ID                   | 233              |
|             | Reference            | F1               |
|             | Designator           |                  |
|             | Part Reference       | F1               |
|             | Value                | 1812 16V 2.5A    |
|             | Primitive            | DEFAULT          |
|             | Implementation Type  | <none>           |
|             | Implementation       |                  |
|             | Implementation Path  |                  |
|             | PCB Footprint        | FUSER_MF-MSMF200 |
|             | OriginalSymbolOrigin | (0,0)            |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 1 : F1/1 | Name          | 1              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | N008630        |
|          | Order         | 0              |
|          | Is No Connect | False          |
|          |               |                |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 2 : F1/2 | Name          | 2              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | VIN            |
|          | Order         | 1              |
|          | Is No Connect | False          |
|          |               |                |

| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS1065 : D2 | Name                 | INS1065   |
|              | ID                   | 230   |
|              | Reference            | D2  |
|              | Designator           |   |
|              | Part Reference       | D2  |
|              | Value                | 0603  |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | LED_KP-1608SURCK  |
|              | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|              | Description          | LED; SMD; 0603; red; 50-150mcd; 1.6x0.8mm; 120; 20mA;   |
|              | Package              | 0603 Kingbright   |
|              | MF                   | Kingbright  |
|              | MP                   | KP-1608SURCK  |
|              | Check_prices         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=ed">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=ed</a>           |
|              | OriginalSymbolOrigin | (0,0)   |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| A : D2/A | Name          | A              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | N01297         |
|          | Order         | 0              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| C : D2/C | Name          | C              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | GND            |
|          | Order         | 1              |
|          | Is No Connect | False          |

| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS1173 : D3 | Name                 | INS1173   |
|              | ID                   | 236   |
|              | Reference            | D3  |
|              | Designator           |   |
|              | Part Reference       | D3  |
|              | Value                | 0603  |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | LED_KP-1608SURCK  |
|              | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|              | Description          | LED; SMD; 0603; red; 50-150mcd; 1.6x0.8mm; 120; 20mA;   |
|              | Package              | 0603 Kingbright   |
|              | MF                   | Kingbright  |
|              | MP                   | KP-1608SURCK  |
|              | Check_prices         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=ed">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=ed</a>           |
|              | OriginalSymbolOrigin | (0,0)   |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| A : D3/A | Name          | A              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | N01299         |
|          | Order         | 0              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| C : D3/C | Name          | C              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | GND            |
|          | Order         | 1              |
|          | Is No Connect | False          |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS975 : C19 | Name                 | INS975           |
|              | ID                   | 239              |
|              | Reference            | C19              |
|              | Designator           |                  |
|              | Part Reference       | C19              |
|              | Value                | 100nF            |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C19/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C19/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value       |
|--------------|----------------------|----------------------|
| INS877 : J15 | Name                 | INS877               |
|              | ID                   | 249                  |
|              | Reference            | J15                  |
|              | Designator           |                      |
|              | Part Reference       | J15                  |
|              | Value                | TBP02R1-381-02BE     |
|              | Primitive            | DEFAULT              |
|              | Implementation Type  | <none>               |
|              | Implementation       |                      |
|              | Implementation Path  |                      |
|              | PCB Footprint        | CUI_TBP02R1-381-02BE |
|              | OriginalSymbolOrigin | (0,0)                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J15/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | H_GND          |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J15/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 12V            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value       |
|---------------|----------------------|----------------------|
| INS1079 : U14 | Name                 | INS1079              |
|               | ID                   | 242                  |
|               | Reference            | U14                  |
|               | Designator           |                      |
|               | Part Reference       | U14                  |
|               | Value                | LM2596SX-12NOPB      |
|               | Primitive            | DEFAULT              |
|               | Implementation Type  | <none>               |
|               | Implementation       |                      |
|               | Implementation Path  |                      |
|               | PCB Footprint        | VREG_LM2596SX-12NOPB |
|               | OriginalSymbolOrigin | (0,0)                |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VIN : U14/VIN | Name          | VIN            |
|               | Number        | 1              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | VIN            |
|               | Order         | 0              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| OUT : U14/OUT | Name          | OUT            |
|               | Number        | 2              |
|               | Swap Id       | -1             |
|               | Type          | Output         |
|               | Net Name      | VOUT           |
|               | Order         | 1              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U14/GND | Name          | GND            |
|               | Number        | 3              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 2              |
|               | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| FB : U14/FB | Name          | FB             |
|             | Number        | 4              |
|             | Swap Id       | -1             |
|             | Type          | Input          |
|             | Net Name      | 5V             |
|             | Order         | 3              |
|             | Is No Connect | False          |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| OINV\O\F\F\ : U14/OINV\O\F\F\ | Name          | OINV\O\F\F\    |
|                               | Number        | 5              |
|                               | Swap Id       | -1             |
|                               | Type          | Input          |
|                               | Net Name      | GND            |
|                               | Order         | 4              |
|                               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U14/GND | Name          | GND            |
|               | Number        | 6              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 5              |
|               | Is No Connect | False          |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS989 : C21 | Name                 | INS989           |
|              | ID                   | 252              |
|              | Reference            | C21              |
|              | Designator           |                  |
|              | Part Reference       | C21              |
|              | Value                | 10uF             |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C21/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C21/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 3V3            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object      | Property Name        | Property Value            |
|-------------|----------------------|---------------------------|
| INS891 : L1 | Name                 | INS891                    |
|             | ID                   | 255                       |
|             | Reference            | L1                        |
|             | Designator           |                           |
|             | Part Reference       | L1                        |
|             | Value                | 33uH                      |
|             | Primitive            | DEFAULT                   |
|             | Implementation Type  | <none>                    |
|             | Implementation       |                           |
|             | Implementation Path  |                           |
|             | PCB Footprint        | IND_CDRH127LDNP-470MC_SUM |
|             | OriginalSymbolOrigin | (0,0)                     |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 1 : L1/1 | Name          | 1              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | 5V             |
|          | Order         | 0              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| 2 : L1/2 | Name          | 2              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Passive        |
|          | Net Name      | VOUT           |
|          | Order         | 1              |
|          | Is No Connect | False          |



| Object       | Property Name        | Property Value  |
|--------------|----------------------|---|
| INS1101 : D6 | Name                 | INS1101   |
|              | ID                   | 258   |
|              | Reference            | D6  |
|              | Designator           |   |
|              | Part Reference       | D6  |
|              | Value                | 1N4007W-T   |
|              | Primitive            | DEFAULT   |
|              | Implementation Type  | <none>  |
|              | Implementation       |   |
|              | Implementation Path  |   |
|              | PCB Footprint        | SODFL3818X130N  |
|              | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/1N4007W/Rectron/view-part/?ref=snap">https://www.snapeda.com/parts/1N4007W/Rectron/view-part/?ref=snap</a> |
|              | Description          | Diode Standard 1000 V 1A Surface Mount SOD-123F   |
|              | Package              | SOD-123F Rectron  |
|              | MF                   | Rectron USA   |
|              | MP                   | 1N4007W   |
|              | Check_prices         | <a href="https://www.snapeda.com/parts/1N4007W/Rectron/view-part/?ref=eda">https://www.snapeda.com/parts/1N4007W/Rectron/view-part/?ref=eda</a>   |
|              | OriginalSymbolOrigin | (0,0)   |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| K : D6/K | Name          | K              |
|          | Number        | 1              |
|          | Swap Id       | -1             |
|          | Type          | Bidirectional  |
|          | Net Name      | VOUT           |
|          | Order         | 0              |
|          | Is No Connect | False          |

| Object   | Property Name | Property Value |
|----------|---------------|----------------|
| A : D6/A | Name          | A              |
|          | Number        | 2              |
|          | Swap Id       | -1             |
|          | Type          | Bidirectional  |
|          | Net Name      | GND            |
|          | Order         | 1              |
|          | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS1003 : R14 | Name                 | INS1003        |
|               | ID                   | 261            |
|               | Reference            | R14            |
|               | Designator           |                |
|               | Part Reference       | R14            |
|               | Value                | 2k2            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R14/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N01299         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R14/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value   |
|--------------|----------------------|------------------|
| INS905 : C25 | Name                 | INS905           |
|              | ID                   | 264              |
|              | Reference            | C25              |
|              | Designator           |                  |
|              | Part Reference       | C25              |
|              | Value                | 10uF 0603        |
|              | Primitive            | DEFAULT          |
|              | Implementation Type  | <none>           |
|              | Implementation       |                  |
|              | Implementation Path  |                  |
|              | PCB Footprint        | WCAP-CSGP_0603_W |
|              | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C25/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C25/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object                             | Property Name              | Property Value                     |
|------------------------------------|----------------------------|------------------------------------|
| Safe for Disable and Enable Driver | Name                       | I02009                             |
|                                    | Bounding Box Left          | 410                                |
|                                    | Bounding Box Right         | 582                                |
|                                    | Bounding Box Top           | 498                                |
|                                    | Bounding Box Bottom        | 507                                |
|                                    | Text                       | Safe for Disable and Enable Driver |
|                                    | Text Location X-Coordinate | 410                                |
|                                    | Text Location Y-Coordinate | 498                                |
|                                    | Font                       | Courier New                        |

| Object      | Property Name              | Property Value |
|-------------|----------------------------|----------------|
| Pull up Pin | Name                       | I02011         |
|             | Bounding Box Left          | 458            |
|             | Bounding Box Right         | 515            |
|             | Bounding Box Top           | 454            |
|             | Bounding Box Bottom        | 463            |
|             | Text                       | Pull up Pin    |
|             | Text Location X-Coordinate | 458            |
|             | Text Location Y-Coordinate | 454            |
|             | Font                       | Courier New    |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1809 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1811 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1813 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1815 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1817 ) | Name          | 12V            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 12V : 12V (Wire ID = 1819 ) | Name          | 12V            |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 1A : 1A (Wire ID = 1821 ) | Name          | 1A             |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| 1A_2 : 1A_2 (Wire ID = 1825 ) | Name          | 1A_2           |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 1B : 1B (Wire ID = 1829 ) | Name          | 1B             |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| 1B_2 : 1B_2 (Wire ID = 1833 ) | Name          | 1B_2           |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 2A : 2A (Wire ID = 1837 ) | Name          | 2A             |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| 2A_2 : 2A_2 (Wire ID = 1841 ) | Name          | 2A_2           |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 2B : 2B (Wire ID = 1845 ) | Name          | 2B             |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| 2B_2 : 2B_2 (Wire ID = 1849 ) | Name          | 2B_2           |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1853 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1855 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1859 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1861 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1863 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1865 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1867 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1869 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1871 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1873 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1875 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1877 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 1879 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1883 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1885 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1887 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1889 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1891 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1893 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1895 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1897 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1899 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1901 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1903 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1905 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1907 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1909 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1911 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1913 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1915 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1917 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 1919 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| IO10 : IO10 (Wire ID = 1921 ) | IREF          | P[1]           |
|                               | Name          | IO10           |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| IO11 : IO11 (Wire ID = 1925 ) | IREF          | P[1]           |
|                               | Name          | IO11           |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO2 : IO2 (Wire ID = 1927 ) | IREF          | P[1]           |
|                             | Name          | IO2            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO3 : IO3 (Wire ID = 1929 ) | IREF          | P[1]           |
|                             | Name          | IO3            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO5 : IO5 (Wire ID = 1931 ) | IREF          | P[1]           |
|                             | Name          | IO5            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO6 : IO6 (Wire ID = 1933 ) | IREF          | P[1]           |
|                             | Name          | IO6            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO8 : IO8 (Wire ID = 1935 ) | IREF          | P[1,3]         |
|                             | Name          | IO8            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO8 : IO8 (Wire ID = 1937 ) | IREF          | P[1,3]         |
|                             | Name          | IO8            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO8 : IO8 (Wire ID = 1939 ) | IREF          | P[1,3]         |
|                             | Name          | IO8            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| IO9 : IO9 (Wire ID = 1943 ) | IREF          | P[1]           |
|                             | Name          | IO9            |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS1_X : MS1_X (Wire ID = 1947 ) | Name          | MS1_X          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS1_X : MS1_X (Wire ID = 1949 ) | Name          | MS1_X          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS1_Y : MS1_Y (Wire ID = 1955 ) | Name          | MS1_Y          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS1_Y : MS1_Y (Wire ID = 1957 ) | Name          | MS1_Y          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS2_X : MS2_X (Wire ID = 1963 ) | Name          | MS2_X          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS2_X : MS2_X (Wire ID = 1965 ) | Name          | MS2_X          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS2_Y : MS2_Y (Wire ID = 1971 ) | Name          | MS2_Y          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS2_Y : MS2_Y (Wire ID = 1973 ) | Name          | MS2_Y          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS3_X : MS3_X (Wire ID = 1979 ) | Name          | MS3_X          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS3_X : MS3_X (Wire ID = 1981 ) | Name          | MS3_X          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS3_Y : MS3_Y (Wire ID = 1987 ) | Name          | MS3_Y          |

| Object                          | Property Name | Property Value |
|---------------------------------|---------------|----------------|
| MS3_Y : MS3_Y (Wire ID = 1989 ) | Name          | MS3_Y          |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01995 : N01995 (Wire ID = 1995 ) | Name          | N01995         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01997 : N01997 (Wire ID = 1997 ) | Name          | N01997         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01999 : N01999 (Wire ID = 1999 ) | Name          | N01999         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01999 : N01999 (Wire ID = 2001 ) | Name          | N01999         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01999 : N01999 (Wire ID = 2003 ) | Name          | N01999         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01999 : N01999 (Wire ID = 2005 ) | Name          | N01999         |



| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N01999 : N01999 (Wire ID = 2007 ) | Name          | N01999         |
|                                   |               |                |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2015 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2019 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 12V    | Name                 | 12V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 12V    | Name                 | 12V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| 5V     | Name                 | 5V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | VCC   |
|        | OriginalSymbolOrigin | (-10,10)  |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| 5V     | Name                 | 5V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | VCC   |
|        | OriginalSymbolOrigin | (-10,10)  |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| GND    | Name                 | GND   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | GND   |
|        | OriginalSymbolOrigin | (-10,0)   |

| Object | Property Name        | Property Value  |
|--------|----------------------|---|
| 5V     | Name                 | 5V  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE. |
|        | Source Symbol        | VCC   |
|        | OriginalSymbolOrigin | (-10,10)  |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO8 : IO8 | Name          | IO8            |
|           | Net ID        | 4241           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO2 : IO2 | Name          | IO2            |
|           | Net ID        | 4244           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO5 : IO5 | Name          | IO5            |
|           | Net ID        | 4220           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO8 : IO8 | Name          | IO8            |
|           | Net ID        | 4241           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO3 : IO3 | Name          | IO3            |
|           | Net ID        | 4233           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO6 : IO6 | Name          | IO6            |
|           | Net ID        | 4222           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| IO9 : IO9 | Name          | IO9            |
|           | Net ID        | 4223           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| IO10 : IO10 | Name          | IO10           |
|             | Net ID        | 4224           |

| Object  | Property Name | Property Value |
|---------|---------------|----------------|
| 5V : 5V | Name          | 5V             |
|         | Net ID        | 4208           |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| GND : GND | Name          | GND            |
|           | Net ID        | 4215           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| IO11 : IO11 | Name          | IO11           |
|             | Net ID        | 4240           |

| Object                    | Property Name         | Property Value   |
|---------------------------|-----------------------|--|
| TitleBlock0 : TitleBlock0 | Path Name             | TitleBlock0  |
|                           | Schematic Path        | /  |
|                           | ID                    | 107  |
|                           | Page Create Date      | Monday, October 28, 2024                               |
|                           | Page Create Time      | 21:17:34   |
|                           | Design Create Date    | Monday, October 28, 2024                               |
|                           | Design Create Time    | 09:59:52   |
|                           | Schematic Create Date | Monday, October 28, 2024                               |
|                           | Schematic Create Time | 09:59:54   |
|                           | Doc                   | CONTROL SCHEMATIC                                      |
|                           | Page Number           | 3  |
|                           | OrgAddr4              |  |
|                           | OrgAddr3              |  |
|                           | OrgAddr2              |  |
|                           | OrgAddr1              |  |
|                           | OrgName               |  |
|                           | Cage Code             |  |
|                           | RevCode               | Design by Mai Xuan Canh                                |
|                           | Page Count            | 5  |
|                           | Title                 | CNC MACHINE DEVELOP BOARD                              |
|                           | TITLEBLOCK0           |  |
|                           | Name                  | TitleBlock0  |
|                           | Design Name           | CNCMACHINE   |
|                           | Design File Name      | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Design Modify Date    | Sunday, November 10, 2024                              |
|                           | Design Modify Time    | 19:08:32   |
|                           | Schematic Name        | SCHEMATIC1   |
|                           | Schematic Modify Date | Sunday, November 10, 2024                              |
|                           | Schematic Modify Time | 19:08:34   |
|                           | Schematic Page Count  | 0  |
|                           | Schematic Page Number | 0  |
|                           | Page Size             | A  |
|                           | Page Modify Date      | Sunday, November 10, 2024                              |
|                           | Page Modify Time      | 19:08:32   |
|                           | Source Library        | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Source Symbol         | TITLEBLOCK0  |
|                           | Page Name             | CONTROL  |
|                           | OriginalSymbolOrigin  | (0,0)  |

| Object        | Property Name        | Property Value       |
|---------------|----------------------|----------------------|
| INS1719 : J10 | Name                 | INS1719              |
|               | ID                   | 267                  |
|               | Reference            | J10                  |
|               | Designator           |                      |
|               | Part Reference       | J10                  |
|               | Value                | LIMIT SWITCH         |
|               | Primitive            | DEFAULT              |
|               | Implementation Type  | <none>               |
|               | Implementation       |                      |
|               | Implementation Path  |                      |
|               | PCB Footprint        | CUI_TBP02R1-381-04BE |
|               | OriginalSymbolOrigin | (0,0)                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J10/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | IO9            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J10/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N01999         |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 3 : J10/3 | Name          | 3              |
|           | Number        | 3              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | IO10           |
|           | Order         | 2              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 4 : J10/4 | Name          | 4              |
|           | Number        | 4              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N01999         |
|           | Order         | 3              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS1525 : U16 | Name                 | INS1525        |
|               | ID                   | 272            |
|               | Reference            | U16            |
|               | Designator           |                |
|               | Part Reference       | U16            |
|               | Value                | A4988          |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | DRV8825        |
|               | OriginalSymbolOrigin | (0,0)          |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| E1W1B1L1E1 : U16/E1W1B1L1E1\ | Name          | E1W1B1L1E1\    |
|                              | Number        | 1              |
|                              | Swap Id       | -1             |
|                              | Type          | Input          |
|                              | Net Name      | IQ8            |
|                              | Order         | 0              |
|                              | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| MS1 : U16/MS1 | Name          | MS1            |
|               | Number        | 2              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | MS1_Y          |
|               | Order         | 1              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| MS2 : U16/MS2 | Name          | MS2            |
|               | Number        | 3              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | MS2_Y          |
|               | Order         | 2              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| MS3 : U16/MS3 | Name          | MS3            |
|               | Number        | 4              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | MS3_Y          |
|               | Order         | 3              |
|               | Is No Connect | False          |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| R1E1S1E1T1 : U16/R1E1S1E1T1\ | Name          | R1E1S1E1T1\    |
|                              | Number        | 5              |
|                              | Swap Id       | -1             |
|                              | Type          | Input          |
|                              | Net Name      | N01997         |
|                              | Order         | 4              |
|                              | Is No Connect | False          |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| S1L1E1E1P1 : U16/S1L1E1E1P1\ | Name          | S1L1E1E1P1\    |
|                              | Number        | 6              |
|                              | Swap Id       | -1             |
|                              | Type          | Input          |
|                              | Net Name      | N01997         |
|                              | Order         | 5              |
|                              | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| STEP : U16/STEP | Name          | STEP           |
|                 | Number        | 7              |
|                 | Swap Id       | -1             |
|                 | Type          | Input          |
|                 | Net Name      | IO3            |
|                 | Order         | 6              |
|                 | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| DIR : U16/DIR | Name          | DIR            |
|               | Number        | 8              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | IO6            |
|               | Order         | 7              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U16/GND | Name          | GND            |
|               | Number        | 9              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 8              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VDD : U16/VDD | Name          | VDD            |
|               | Number        | 10             |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | 5V             |
|               | Order         | 9              |
|               | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 1B : U16/1B | Name          | 1B             |
|             | Number        | 11             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 1B_2           |
|             | Order         | 10             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 1A : U16/1A | Name          | 1A             |
|             | Number        | 12             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 1A_2           |
|             | Order         | 11             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 2A : U16/2A | Name          | 2A             |
|             | Number        | 13             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 2A_2           |
|             | Order         | 12             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 2B : U16/2B | Name          | 2B             |
|             | Number        | 14             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 2B_2           |
|             | Order         | 13             |
|             | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U16/GND | Name          | GND            |
|               | Number        | 15             |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 14             |
|               | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| VMOT : U16/VMOT | Name          | VMOT           |
|                 | Number        | 16             |
|                 | Swap Id       | -1             |
|                 | Type          | Power          |
|                 | Net Name      | 12V            |
|                 | Order         | 15             |
|                 | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS1631 : U15 | Name                 | INS1631        |
|               | ID                   | 289            |
|               | Reference            | U15            |
|               | Designator           |                |
|               | Part Reference       | U15            |
|               | Value                | A4988          |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | DRV8825        |
|               | OriginalSymbolOrigin | (0,0)          |



| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| E1W1B1L1E1 : U15/E1W1B1L1E1\ | Name          | E1W1B1L1E1\    |
|                              | Number        | 1              |
|                              | Swap Id       | -1             |
|                              | Type          | Input          |
|                              | Net Name      | IQ8            |
|                              | Order         | 0              |
|                              | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| MS1 : U15/MS1 | Name          | MS1            |
|               | Number        | 2              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | MS1_X          |
|               | Order         | 1              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| MS2 : U15/MS2 | Name          | MS2            |
|               | Number        | 3              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | MS2_X          |
|               | Order         | 2              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| MS3 : U15/MS3 | Name          | MS3            |
|               | Number        | 4              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | MS3_X          |
|               | Order         | 3              |
|               | Is No Connect | False          |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| R1E1S1E1T1 : U15/R1E1S1E1T1\ | Name          | R1E1S1E1T1\    |
|                              | Number        | 5              |
|                              | Swap Id       | -1             |
|                              | Type          | Input          |
|                              | Net Name      | N01995         |
|                              | Order         | 4              |
|                              | Is No Connect | False          |

| Object                       | Property Name | Property Value |
|------------------------------|---------------|----------------|
| S1L1E1E1P1 : U15/S1L1E1E1P1\ | Name          | S1L1E1E1P1\    |
|                              | Number        | 6              |
|                              | Swap Id       | -1             |
|                              | Type          | Input          |
|                              | Net Name      | N01995         |
|                              | Order         | 5              |
|                              | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| STEP : U15/STEP | Name          | STEP           |
|                 | Number        | 7              |
|                 | Swap Id       | -1             |
|                 | Type          | Input          |
|                 | Net Name      | IO2            |
|                 | Order         | 6              |
|                 | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| DIR : U15/DIR | Name          | DIR            |
|               | Number        | 8              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | IO5            |
|               | Order         | 7              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U15/GND | Name          | GND            |
|               | Number        | 9              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 8              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VDD : U15/VDD | Name          | VDD            |
|               | Number        | 10             |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | 5V             |
|               | Order         | 9              |
|               | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 1B : U15/1B | Name          | 1B             |
|             | Number        | 11             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 1B             |
|             | Order         | 10             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 1A : U15/1A | Name          | 1A             |
|             | Number        | 12             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 1A             |
|             | Order         | 11             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 2A : U15/2A | Name          | 2A             |
|             | Number        | 13             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 2A             |
|             | Order         | 12             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 2B : U15/2B | Name          | 2B             |
|             | Number        | 14             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | 2B             |
|             | Order         | 13             |
|             | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U15/GND | Name          | GND            |
|               | Number        | 15             |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 14             |
|               | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| VMOT : U15/VMOT | Name          | VMOT           |
|                 | Number        | 16             |
|                 | Swap Id       | -1             |
|                 | Type          | Power          |
|                 | Net Name      | 12V            |
|                 | Order         | 15             |
|                 | Is No Connect | False          |

| Object       | Property Name        | Property Value |
|--------------|----------------------|----------------|
| INS1737 : S2 | Name                 | INS1737        |
|              | ID                   | 306            |
|              | Reference            | S2             |
|              | Designator           |                |
|              | Part Reference       | S2             |
|              | Value                | DIP3_X_254     |
|              | Primitive            | DEFAULT        |
|              | Implementation Type  | <none>         |
|              | Implementation       |                |
|              | Implementation Path  |                |
|              | PCB Footprint        | A6S3104H       |
|              | OriginalSymbolOrigin | (0,0)          |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| COM_1 : S2/COM_1 | Name          | COM_1          |
|                  | Number        | 1              |
|                  | Swap Id       | -1             |
|                  | Type          | Bidirectional  |
|                  | Net Name      | 5V             |
|                  | Order         | 0              |
|                  | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| NO_1 : S2/NO_1 | Name          | NO_1           |
|                | Number        | 2              |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | MS1_X          |
|                | Order         | 1              |
|                | Is No Connect | False          |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| COM_2 : S2/COM_2 | Name          | COM_2          |
|                  | Number        | 3              |
|                  | Swap Id       | -1             |
|                  | Type          | Bidirectional  |
|                  | Net Name      | 5V             |
|                  | Order         | 2              |
|                  | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| NO_2 : S2/NO_2 | Name          | NO_2           |
|                | Number        | 4              |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | MS2_X          |
|                | Order         | 3              |
|                | Is No Connect | False          |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| COM_3 : S2/COM_3 | Name          | COM_3          |
|                  | Number        | 5              |
|                  | Swap Id       | -1             |
|                  | Type          | Bidirectional  |
|                  | Net Name      | 5V             |
|                  | Order         | 4              |
|                  | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| NO_3 : S2/NO_3 | Name          | NO_3           |
|                | Number        | 6              |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | MS3_X          |
|                | Order         | 5              |
|                | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS1759 : R20 | Name                 | INS1759        |
|               | ID                   | 313            |
|               | Reference            | R20            |
|               | Designator           |                |
|               | Part Reference       | R20            |
|               | Value                | 10K            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R20/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | IO8            |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R20/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |
|           |               |                |

| Object        | Property Name        | Property Value       |
|---------------|----------------------|----------------------|
| INS1567 : J20 | Name                 | INS1567              |
|               | ID                   | 316                  |
|               | Reference            | J20                  |
|               | Designator           |                      |
|               | Part Reference       | J20                  |
|               | Value                | X MOTOR              |
|               | Primitive            | DEFAULT              |
|               | Implementation Type  | <none>               |
|               | Implementation       |                      |
|               | Implementation Path  |                      |
|               | PCB Footprint        | CUI_TBP02R1-381-04BE |
|               | OriginalSymbolOrigin | (0,0)                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J20/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 1A             |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J20/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 1B             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 3 : J20/3 | Name          | 3              |
|           | Number        | 3              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 2A             |
|           | Order         | 2              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 4 : J20/4 | Name          | 4              |
|           | Number        | 4              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 2B             |
|           | Order         | 3              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS1773 : C38 | Name                 | INS1773          |
|               | ID                   | 321              |
|               | Reference            | C38              |
|               | Designator           |                  |
|               | Part Reference       | C38              |
|               | Value                | 100nF            |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C38/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C38/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value        |
|---------------|----------------------|-----------------------|
| INS1673 : J34 | Name                 | INS1673               |
|               | ID                   | 324                   |
|               | Reference            | J34                   |
|               | Designator           |                       |
|               | Part Reference       | J34                   |
|               | Value                | FAN 5V                |
|               | Primitive            | DEFAULT               |
|               | Implementation Type  | <none>                |
|               | Implementation       |                       |
|               | Implementation Path  |                       |
|               | PCB Footprint        | SAMTEC_ESQ-102-48-L-S |
|               | OriginalSymbolOrigin | (0,0)                 |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 01 : J34/01 | Name          | 01             |
|             | Number        | 01             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | 5V             |
|             | Order         | 0              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 02 : J34/02 | Name          | 02             |
|             | Number        | 02             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      | GND            |
|             | Order         | 1              |
|             | Is No Connect | False          |

| Object        | Property Name        | Property Value       |
|---------------|----------------------|----------------------|
| INS1585 : J22 | Name                 | INS1585              |
|               | ID                   | 334                  |
|               | Reference            | J22                  |
|               | Designator           |                      |
|               | Part Reference       | J22                  |
|               | Value                | Z MOTOR              |
|               | Primitive            | DEFAULT              |
|               | Implementation Type  | <none>               |
|               | Implementation       |                      |
|               | Implementation Path  |                      |
|               | PCB Footprint        | CUI_TBP02R1-381-03BE |
|               | OriginalSymbolOrigin | (0,0)                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J22/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J22/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 3 : J22/3 | Name          | 3              |
|           | Number        | 3              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | IO11           |
|           | Order         | 2              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value |
|--------------|----------------------|----------------|
| INS1787 : S3 | Name                 | INS1787        |
|              | ID                   | 327            |
|              | Reference            | S3             |
|              | Designator           |                |
|              | Part Reference       | S3             |
|              | Value                | DIP3_Y_254     |
|              | Primitive            | DEFAULT        |
|              | Implementation Type  | <none>         |
|              | Implementation       |                |
|              | Implementation Path  |                |
|              | PCB Footprint        | A6S3104H       |
|              | OriginalSymbolOrigin | (0,0)          |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| COM_1 : S3/COM_1 | Name          | COM_1          |
|                  | Number        | 1              |
|                  | Swap Id       | -1             |
|                  | Type          | Bidirectional  |
|                  | Net Name      | 5V             |
|                  | Order         | 0              |
|                  | Is No Connect | False          |



| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| NO_1 : S3/NO_1 | Name          | NO_1           |
|                | Number        | 2              |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | MS1_Y          |
|                | Order         | 1              |
|                | Is No Connect | False          |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| COM_2 : S3/COM_2 | Name          | COM_2          |
|                  | Number        | 3              |
|                  | Swap Id       | -1             |
|                  | Type          | Bidirectional  |
|                  | Net Name      | 5V             |
|                  | Order         | 2              |
|                  | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| NO_2 : S3/NO_2 | Name          | NO_2           |
|                | Number        | 4              |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | MS2_Y          |
|                | Order         | 3              |
|                | Is No Connect | False          |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| COM_3 : S3/COM_3 | Name          | COM_3          |
|                  | Number        | 5              |
|                  | Swap Id       | -1             |
|                  | Type          | Bidirectional  |
|                  | Net Name      | 5V             |
|                  | Order         | 4              |
|                  | Is No Connect | False          |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| NO_3 : S3/NO_3 | Name          | NO_3           |
|                | Number        | 6              |
|                | Swap Id       | -1             |
|                | Type          | Bidirectional  |
|                | Net Name      | MS3_Y          |
|                | Order         | 5              |
|                | Is No Connect | False          |

| Object        | Property Name        | Property Value       |
|---------------|----------------------|----------------------|
| INS1687 : J21 | Name                 | INS1687              |
|               | ID                   | 338                  |
|               | Reference            | J21                  |
|               | Designator           |                      |
|               | Part Reference       | J21                  |
|               | Value                | Y MOTOR              |
|               | Primitive            | DEFAULT              |
|               | Implementation Type  | <none>               |
|               | Implementation       |                      |
|               | Implementation Path  |                      |
|               | PCB Footprint        | CUI_TBP02R1-381-04BE |
|               | OriginalSymbolOrigin | (0,0)                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J21/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 1A_2           |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J21/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 1B_2           |
|           | Order         | 1              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 3 : J21/3 | Name          | 3              |
|           | Number        | 3              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 2A_2           |
|           | Order         | 2              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 4 : J21/4 | Name          | 4              |
|           | Number        | 4              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 2B_2           |
|           | Order         | 3              |
|           | Is No Connect | False          |
|           |               |                |

| Object        | Property Name        | Property Value        |
|---------------|----------------------|-----------------------|
| INS1601 : C33 | Name                 | INS1601               |
|               | ID                   | 343                   |
|               | Reference            | C33                   |
|               | Designator           |                       |
|               | Part Reference       | C33                   |
|               | Value                | 47uF/50V              |
|               | Primitive            | DEFAULT               |
|               | Implementation Type  | <none>                |
|               | Implementation       |                       |
|               | Implementation Path  |                       |
|               | PCB Footprint        | CAPPRD500W50D630H1120 |
|               | OriginalSymbolOrigin | (0,0)                 |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| N : C33/N | Name          | N              |
|           | Number        | N              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| P : C33/P | Name          | P              |
|           | Number        | P              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 12V            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value        |
|---------------|----------------------|-----------------------|
| INS1705 : C32 | Name                 | INS1705               |
|               | ID                   | 346                   |
|               | Reference            | C32                   |
|               | Designator           |                       |
|               | Part Reference       | C32                   |
|               | Value                | 47uF/50V              |
|               | Primitive            | DEFAULT               |
|               | Implementation Type  | <none>                |
|               | Implementation       |                       |
|               | Implementation Path  |                       |
|               | PCB Footprint        | CAPPRD500W50D630H1120 |
|               | OriginalSymbolOrigin | (0,0)                 |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| N : C32/N | Name          | N              |
|           | Number        | N              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| P : C32/P | Name          | P              |
|           | Number        | P              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 12V            |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS1615 : J33 | Name                 | INS1615        |
|               | ID                   | 349            |
|               | Reference            | J33            |
|               | Designator           |                |
|               | Part Reference       | J33            |
|               | Value                | SELECT PIN     |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | TE_5-146281-3  |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : J33/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : J33/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N01999         |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 3 : J33/3 | Name          | 3              |
|           | Number        | 3              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 2              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value   |
|-----------|---------------|------------------|
| Rectangle | Name          | I02532           |
|           | Left          | 478              |
|           | Top           | 242              |
|           | Right         | 544              |
|           | Bottom        | 256              |
|           | Fill Style    | Hollow Fill      |
|           | Hatch Style   | Horizontal Hatch |

| Object    | Property Name | Property Value   |
|-----------|---------------|------------------|
| Rectangle | Name          | I02534           |
|           | Left          | 450              |
|           | Top           | 296              |
|           | Right         | 538              |
|           | Bottom        | 310              |
|           | Fill Style    | Hollow Fill      |
|           | Hatch Style   | Horizontal Hatch |

| Object       | Property Name              | Property Value |
|--------------|----------------------------|----------------|
| Change TX RX | Name                       | I02528         |
|              | Bounding Box Left          | 482            |
|              | Bounding Box Right         | 544            |
|              | Bounding Box Top           | 244            |
|              | Bounding Box Bottom        | 253            |
|              | Text                       | Change TX RX   |
|              | Text Location X-Coordinate | 482            |
|              | Text Location Y-Coordinate | 244            |
|              | Font                       | Courier New    |

| Object            | Property Name              | Property Value    |
|-------------------|----------------------------|-------------------|
| Differential Pair | Name                       | I02530            |
|                   | Bounding Box Left          | 452               |
|                   | Bounding Box Right         | 539               |
|                   | Bounding Box Top           | 298               |
|                   | Bounding Box Bottom        | 306               |
|                   | Text                       | Differential Pair |
|                   | Text Location X-Coordinate | 452               |
|                   | Text Location Y-Coordinate | 298               |
|                   | Font                       | Courier New       |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2416 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2418 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2420 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2422 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2424 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2426 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2430 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2432 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| 5V : 5V (Wire ID = 2434 ) | IREF          | P[1,2,4]       |
|                           | Name          | 5V             |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2438 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2440 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2444 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2446 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2450 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2454 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2456 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2458 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2460 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2462 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2464 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2466 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2468 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N02470 : N02470 (Wire ID = 2470 ) | Name          | N02470         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N02472 : N02472 (Wire ID = 2472 ) | Name          | N02472         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| N02474 : N02474 (Wire ID = 2474 ) | Name          | N02474         |

| Object                            | Property Name     | Property Value |
|-----------------------------------|-------------------|----------------|
| USB_D+ : USB_D+ (Wire ID = 2480 ) | DIFFERENTIAL_PAIR | USB            |
|                                   | Name              | USB_D+         |

| Object                            | Property Name     | Property Value |
|-----------------------------------|-------------------|----------------|
| USB_D+ : USB_D+ (Wire ID = 2482 ) | DIFFERENTIAL_PAIR | USB            |
|                                   | Name              | USB_D+         |

| Object                            | Property Name     | Property Value |
|-----------------------------------|-------------------|----------------|
| USB_D- : USB_D- (Wire ID = 2488 ) | DIFFERENTIAL_PAIR | USB            |
|                                   | Name              | USB_D-         |

| Object                            | Property Name     | Property Value |
|-----------------------------------|-------------------|----------------|
| USB_D- : USB_D- (Wire ID = 2490 ) | DIFFERENTIAL_PAIR | USB            |
|                                   | Name              | USB_D-         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_RX : USB_RX (Wire ID = 2496 ) | IREF          | P[1]           |
|                                   | Name          | USB_RX         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_RX : USB_RX (Wire ID = 2498 ) | IREF          | P[1]           |
|                                   | Name          | USB_RX         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_RX : USB_RX (Wire ID = 2500 ) | IREF          | P[1]           |
|                                   | Name          | USB_RX         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_TX : USB_TX (Wire ID = 2504 ) | IREF          | P[1]           |
|                                   | Name          | USB_TX         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_TX : USB_TX (Wire ID = 2506 ) | IREF          | P[1]           |
|                                   | Name          | USB_TX         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_TX : USB_TX (Wire ID = 2508 ) | IREF          | P[1]           |
|                                   | Name          | USB_TX         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| USB_TX : USB_TX (Wire ID = 2510 ) | IREF          | P[1]           |
|                                   | Name          | USB_TX         |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| XI : XI (Wire ID = 2512 ) | Name          | XI             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| XI : XI (Wire ID = 2514 ) | Name          | XI             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| XO : XO (Wire ID = 2520 ) | Name          | XO             |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| XO : XO (Wire ID = 2522 ) | Name          | XO             |



| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 5V     | Name                 | 5V   |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| USB_RX : USB_RX | Name          | USB_RX         |
|                 | Net ID        | 4248           |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| USB_TX : USB_TX | Name          | USB_TX         |
|                 | Net ID        | 4253           |

| Object                    | Property Name         | Property Value   |
|---------------------------|-----------------------|--|
| TitleBlock0 : TitleBlock0 | Path Name             | TitleBlock0  |
|                           | Schematic Path        | /  |
|                           | ID                    | 108  |
|                           | Page Create Date      | Monday, October 28, 2024                               |
|                           | Page Create Time      | 11:51:49   |
|                           | Design Create Date    | Monday, October 28, 2024                               |
|                           | Design Create Time    | 09:59:52   |
|                           | Schematic Create Date | Monday, October 28, 2024                               |
|                           | Schematic Create Time | 09:59:54   |
|                           | Doc                   | USB SCHEMATIC  |
|                           | Page Number           | 4  |
|                           | OrgAddr4              |  |
|                           | OrgAddr3              |  |
|                           | OrgAddr2              |  |
|                           | OrgAddr1              |  |
|                           | OrgName               |  |
|                           | Cage Code             |  |
|                           | RevCode               | Design by Mai Xuan Canh                                |
|                           | Page Count            | 5  |
|                           | Title                 | CNC MACHINE DEVELOP BOARD                              |
|                           | TITLEBLOCK0           |  |
|                           | Name                  | TitleBlock0  |
|                           | Design Name           | CNCMACHINE   |
|                           | Design File Name      | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Design Modify Date    | Sunday, November 10, 2024                              |
|                           | Design Modify Time    | 19:08:32   |
|                           | Schematic Name        | SCHEMATIC1   |
|                           | Schematic Modify Date | Sunday, November 10, 2024                              |
|                           | Schematic Modify Time | 19:08:34   |
|                           | Schematic Page Count  | 0  |
|                           | Schematic Page Number | 0  |
|                           | Page Size             | A  |
|                           | Page Modify Date      | Sunday, November 10, 2024                              |
|                           | Page Modify Time      | 19:08:32   |
|                           | Source Library        | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Source Symbol         | TITLEBLOCK0  |
|                           | Page Name             | USB  |
|                           | OriginalSymbolOrigin  | (0,0)  |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2328 : R19 | Name                 | INS2328        |
|               | ID                   | 353            |
|               | Reference            | R19            |
|               | Designator           |                |
|               | Part Reference       | R19            |
|               | Value                | 1K             |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | Vendor               | Digi-Key       |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R19/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N021942        |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R19/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | USB_TX         |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2236 : R17 | Name                 | INS2236        |
|               | ID                   | 356            |
|               | Reference            | R17            |
|               | Designator           |                |
|               | Part Reference       | R17            |
|               | Value                | 1K             |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | Vendor               | Digi-Key       |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R17/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N02474         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R17/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value  |
|---------------|----------------------|---|
| INS2342 : D12 | Name                 | INS2342   |
|               | ID                   | 359   |
|               | Reference            | D12   |
|               | Designator           |   |
|               | Part Reference       | D12   |
|               | Value                | 0603  |
|               | Primitive            | DEFAULT   |
|               | Implementation Type  | <none>  |
|               | Implementation       |   |
|               | Implementation Path  |   |
|               | PCB Footprint        | LED_KP-1608SURCK  |
|               | Vendor               | Digi-Key  |
|               | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|               | Description          | LED; SMD; 0603; red; 50-150mcd; 1.6x0.8mm; 120; 20mA;   |
|               | Package              | 0603 Kingbright   |
|               | MF                   | Kingbright  |
|               | MP                   | KP-1608SURCK  |
|               | Check_prices         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|               | OriginalSymbolOrigin | (0,0)   |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| A : D12/A | Name          | A              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N02474         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| C : D12/C | Name          | C              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | USB_TX         |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS2250 : C31 | Name                 | INS2250          |
|               | ID                   | 362              |
|               | Reference            | C31              |
|               | Designator           |                  |
|               | Part Reference       | C31              |
|               | Value                | 22pF 0603        |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C31/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C31/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | X1             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS2356 : C30 | Name                 | INS2356          |
|               | ID                   | 365              |
|               | Reference            | C30              |
|               | Designator           |                  |
|               | Part Reference       | C30              |
|               | Value                | 22pF 0603        |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C30/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C30/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | XO             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2264 : R16 | Name                 | INS2264        |
|               | ID                   | 368            |
|               | Reference            | R16            |
|               | Designator           |                |
|               | Part Reference       | R16            |
|               | Value                | 1K             |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | Vendor               | Digi-Key       |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R16/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N02472         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R16/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value              |
|--------------|----------------------|-----------------------------|
| INS2370 : Y5 | Name                 | INS2370                     |
|              | ID                   | 371                         |
|              | Reference            | Y5                          |
|              | Designator           |                             |
|              | Part Reference       | Y5                          |
|              | Value                | 12Mhz 5032 4 pin            |
|              | Primitive            | DEFAULT                     |
|              | Implementation Type  | <none>                      |
|              | Implementation       |                             |
|              | Implementation Path  |                             |
|              | PCB Footprint        | XTAL_ECS-2712-10-30B-RWY-TR |
|              | Vendor               | Digi-Key                    |
|              | OriginalSymbolOrigin | (0,0)                       |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| IN/OUT : Y5/IN/OUT | Name          | IN/OUT         |
|                    | Number        | 1              |
|                    | Swap Id       | -1             |
|                    | Type          | Bidirectional  |
|                    | Net Name      | XO             |
|                    | Order         | 0              |
|                    | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : Y5/GND | Name          | GND            |
|              | Number        | 2              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 1              |
|              | Is No Connect | False          |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| OUT/IN : Y5/OUT/IN | Name          | OUT/IN         |
|                    | Number        | 3              |
|                    | Swap Id       | -1             |
|                    | Type          | Bidirectional  |
|                    | Net Name      | XI             |
|                    | Order         | 2              |
|                    | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : Y5/GND | Name          | GND            |
|              | Number        | 4              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 3              |
|              | Is No Connect | False          |

| Object        | Property Name        | Property Value        |
|---------------|----------------------|-----------------------|
| INS2278 : J13 | Name                 | INS2278               |
|               | ID                   | 376                   |
|               | Reference            | J13                   |
|               | Designator           |                       |
|               | Part Reference       | J13                   |
|               | Value                | USB_TYPEB             |
|               | Primitive            | DEFAULT               |
|               | Implementation Type  | <none>                |
|               | Implementation       |                       |
|               | Implementation Path  |                       |
|               | PCB Footprint        | SAMTEC_USB-B-S-S-O-TH |
|               | Vendor               | Digi-Key              |
|               | OriginalSymbolOrigin | (0,0)                 |

| Object              | Property Name | Property Value |
|---------------------|---------------|----------------|
| SHIELD : J13/SHIELD | Name          | SHIELD         |
|                     | Number        | S1             |
|                     | Swap Id       | -1             |
|                     | Type          | Passive        |
|                     | Net Name      | GND            |
|                     | Order         | 0              |
|                     | Is No Connect | False          |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| SHIELD__1 : J13/SHIELD__1 | Name          | SHIELD__1      |
|                           | Number        | S2             |
|                           | Swap Id       | -1             |
|                           | Type          | Passive        |
|                           | Net Name      | GND            |
|                           | Order         | 1              |
|                           | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VCC : J13/VCC | Name          | VCC            |
|               | Number        | 1              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | 5V             |
|               | Order         | 2              |
|               | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| D- : J13/D- | Name          | D-             |
|             | Number        | 2              |
|             | Swap Id       | -1             |
|             | Type          | Bidirectional  |
|             | Net Name      | USB_D-         |
|             | Order         | 3              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| D+ : J13/D+ | Name          | D+             |
|             | Number        | 3              |
|             | Swap Id       | -1             |
|             | Type          | Bidirectional  |
|             | Net Name      | USB_D+         |
|             | Order         | 4              |
|             | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : J13/GND | Name          | GND            |
|               | Number        | 4              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 5              |
|               | Is No Connect | False          |



| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS2180 : C29 | Name                 | INS2180          |
|               | ID                   | 383              |
|               | Reference            | C29              |
|               | Designator           |                  |
|               | Part Reference       | C29              |
|               | Value                | 10uF 0603        |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | Vendor               | Digi-Key         |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C29/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N02470         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C29/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS2388 : C27 | Name                 | INS2388          |
|               | ID                   | 386              |
|               | Reference            | C27              |
|               | Designator           |                  |
|               | Part Reference       | C27              |
|               | Value                | 10uF 0603        |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | Vendor               | Digi-Key         |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C27/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C27/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object       | Property Name        | Property Value      |
|--------------|----------------------|---------------------|
| INS2194 : U3 | Name                 | INS2194             |
|              | ID                   | 389                 |
|              | Reference            | U3                  |
|              | Designator           |                     |
|              | Part Reference       | U3                  |
|              | Value                | CH340G              |
|              | Primitive            | DEFAULT             |
|              | Implementation Type  | <none>              |
|              | Implementation       |                     |
|              | Implementation Path  |                     |
|              | PCB Footprint        | SOIC127P600X180-16N |
|              | Vendor               | Digi-Key            |
|              | OriginalSymbolOrigin | (0,0)               |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| GND : U3/GND | Name          | GND            |
|              | Number        | 1              |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | GND            |
|              | Order         | 0              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| TXD : U3/TXD | Name          | TXD            |
|              | Number        | 2              |
|              | Swap Id       | -1             |
|              | Type          | Output         |
|              | Net Name      | N021941        |
|              | Order         | 1              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| RXD : U3/RXD | Name          | RXD            |
|              | Number        | 3              |
|              | Swap Id       | -1             |
|              | Type          | Input          |
|              | Net Name      | N021942        |
|              | Order         | 2              |
|              | Is No Connect | False          |

| Object     | Property Name | Property Value |
|------------|---------------|----------------|
| V3 : U3/V3 | Name          | V3             |
|            | Number        | 4              |
|            | Swap Id       | -1             |
|            | Type          | Power          |
|            | Net Name      | N02470         |
|            | Order         | 3              |
|            | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| UD+ : U3/UD+ | Name          | UD+            |
|              | Number        | 5              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | USB_D+         |
|              | Order         | 4              |
|              | Is No Connect | False          |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| UD- : U3/UD- | Name          | UD-            |
|              | Number        | 6              |
|              | Swap Id       | -1             |
|              | Type          | Bidirectional  |
|              | Net Name      | USB_D-         |
|              | Order         | 5              |
|              | Is No Connect | False          |

| Object     | Property Name | Property Value |
|------------|---------------|----------------|
| XI : U3/XI | Name          | XI             |
|            | Number        | 7              |
|            | Swap Id       | -1             |
|            | Type          | Input          |
|            | Net Name      | XI             |
|            | Order         | 6              |
|            | Is No Connect | False          |

| Object     | Property Name | Property Value |
|------------|---------------|----------------|
| XO : U3/XO | Name          | XO             |
|            | Number        | 8              |
|            | Swap Id       | -1             |
|            | Type          | Output         |
|            | Net Name      | XO             |
|            | Order         | 7              |
|            | Is No Connect | False          |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| C/T\S\ : U3/C/T\S\ | Name          | C/T\S\         |
|                    | Number        | 9              |
|                    | Swap Id       | -1             |
|                    | Type          | Input          |
|                    | Net Name      |                |
|                    | Order         | 8              |
|                    | Is No Connect | True           |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| D\S\R\ : U3/D\S\R\ | Name          | D\S\R\         |
|                    | Number        | 10             |
|                    | Swap Id       | -1             |
|                    | Type          | Input          |
|                    | Net Name      |                |
|                    | Order         | 9              |
|                    | Is No Connect | True           |

| Object         | Property Name | Property Value |
|----------------|---------------|----------------|
| R\I\ : U3/R\I\ | Name          | R\I\           |
|                | Number        | 11             |
|                | Swap Id       | -1             |
|                | Type          | Input          |
|                | Net Name      |                |
|                | Order         | 10             |
|                | Is No Connect | True           |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| D\C\D\ : U3/D\C\D\ | Name          | D\C\D\         |
|                    | Number        | 12             |
|                    | Swap Id       | -1             |
|                    | Type          | Input          |
|                    | Net Name      |                |
|                    | Order         | 11             |
|                    | Is No Connect | True           |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| D\T\R\ : U3/D\T\R\ | Name          | D\T\R\         |
|                    | Number        | 13             |
|                    | Swap Id       | -1             |
|                    | Type          | Output         |
|                    | Net Name      |                |
|                    | Order         | 12             |
|                    | Is No Connect | True           |

| Object             | Property Name | Property Value |
|--------------------|---------------|----------------|
| R\T\S\ : U3/R\T\S\ | Name          | R\T\S\         |
|                    | Number        | 14             |
|                    | Swap Id       | -1             |
|                    | Type          | Output         |
|                    | Net Name      |                |
|                    | Order         | 13             |
|                    | Is No Connect | True           |

| Object           | Property Name | Property Value |
|------------------|---------------|----------------|
| RS232 : U3/RS232 | Name          | RS232          |
|                  | Number        | 15             |
|                  | Swap Id       | -1             |
|                  | Type          | Input          |
|                  | Net Name      |                |
|                  | Order         | 14             |
|                  | Is No Connect | True           |

| Object       | Property Name | Property Value |
|--------------|---------------|----------------|
| VCC : U3/VCC | Name          | VCC            |
|              | Number        | 16             |
|              | Swap Id       | -1             |
|              | Type          | Power          |
|              | Net Name      | 5V             |
|              | Order         | 15             |
|              | Is No Connect | False          |

| Object        | Property Name        | Property Value   |
|---------------|----------------------|------------------|
| INS2300 : C28 | Name                 | INS2300          |
|               | ID                   | 406              |
|               | Reference            | C28              |
|               | Designator           |                  |
|               | Part Reference       | C28              |
|               | Value                | 100nF 0603       |
|               | Primitive            | DEFAULT          |
|               | Implementation Type  | <none>           |
|               | Implementation       |                  |
|               | Implementation Path  |                  |
|               | Vendor               | Digi-Key         |
|               | PCB Footprint        | WCAP-CSGP_0603_W |
|               | OriginalSymbolOrigin | (0,0)            |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : C28/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | GND            |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : C28/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | 5V             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2402 : R18 | Name                 | INS2402        |
|               | ID                   | 409            |
|               | Reference            | R18            |
|               | Designator           |                |
|               | Part Reference       | R18            |
|               | Value                | 1K             |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | Vendor               | Digi-Key       |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R18/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N021941        |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R18/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | USB_RX         |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value  |
|---------------|----------------------|---|
| INS2314 : D11 | Name                 | INS2314   |
|               | ID                   | 412   |
|               | Reference            | D11   |
|               | Designator           |   |
|               | Part Reference       | D11   |
|               | Value                | 0603  |
|               | Primitive            | DEFAULT   |
|               | Implementation Type  | <none>  |
|               | Implementation       |   |
|               | Implementation Path  |   |
|               | PCB Footprint        | LED_KP-1608SURCK  |
|               | Vendor               | Digi-Key  |
|               | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|               | Description          | LED; SMD; 0603; red; 50-150mcd; 1.6x0.8mm; 120; 20mA;   |
|               | Package              | 0603 Kingbright   |
|               | MF                   | Kingbright  |
|               | MP                   | KP-1608SURCK  |
|               | Check_prices         | <a href="https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda">https://www.snapeda.com/parts/KP-1608SURCK/Kingbright/view-part/?ref=snapeda</a> |
|               | OriginalSymbolOrigin | (0,0)   |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| A : D11/A | Name          | A              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N02472         |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| C : D11/C | Name          | C              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | USB_RX         |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 2775 ) | Name          | 3V3            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| 3V3 : 3V3 (Wire ID = 2781 ) | Name          | 3V3            |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| CS_LLS : CS_LLS (Wire ID = 2785 ) | Name          | CS_LLS         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| CS_LLS : CS_LLS (Wire ID = 2787 ) | Name          | CS_LLS         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| DI_LLS : DI_LLS (Wire ID = 2793 ) | Name          | DI_LLS         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| DI_LLS : DI_LLS (Wire ID = 2795 ) | Name          | DI_LLS         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| DO_LLS : DO_LLS (Wire ID = 2801 ) | Name          | DO_LLS         |

| Object                            | Property Name | Property Value |
|-----------------------------------|---------------|----------------|
| DO_LLS : DO_LLS (Wire ID = 2803 ) | Name          | DO_LLS         |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2809 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2811 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2813 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2815 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2817 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2819 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2821 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2823 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2825 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2827 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2829 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2831 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2833 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2835 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                      | Property Name | Property Value |
|-----------------------------|---------------|----------------|
| GND : GND (Wire ID = 2837 ) | IREF          | P[1,2,4,5]     |
|                             | Name          | GND            |

| Object                        | Property Name | Property Value |
|-------------------------------|---------------|----------------|
| MISO : MISO (Wire ID = 2839 ) | IREF          | P[1]           |
|                               | Name          | MISO           |

| Object                              | Property Name | Property Value |
|-------------------------------------|---------------|----------------|
| SCK_LLS : SCK_LLS (Wire ID = 2853 ) | Name          | SCK_LLS        |

| Object                              | Property Name | Property Value |
|-------------------------------------|---------------|----------------|
| SCK_LLS : SCK_LLS (Wire ID = 2855 ) | Name          | SCK_LLS        |



| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 3V3    | Name                 | 3V3  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| 3V3    | Name                 | 3V3  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | VCC  |
|        | OriginalSymbolOrigin | (-10,10)   |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object | Property Name        | Property Value   |
|--------|----------------------|--|
| GND    | Name                 | GND  |
|        | Source Library       | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|        | Source Symbol        | GND  |
|        | OriginalSymbolOrigin | (-10,0)  |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| SCK : SCK | Name          | SCK            |
|           | Net ID        | 4261           |

| Object  | Property Name | Property Value |
|---------|---------------|----------------|
| CS : CS | Name          | CS             |
|         | Net ID        | 4266           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| MISO : MISO | Name          | MISO           |
|             | Net ID        | 4260           |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| MOSI : MOSI | Name          | MOSI           |
|             | Net ID        | 4270           |

| Object                    | Property Name         | Property Value   |
|---------------------------|-----------------------|--|
| TitleBlock0 : TitleBlock0 | Path Name             | TitleBlock0  |
|                           | Schematic Path        | /  |
|                           | ID                    | 109  |
|                           | Page Create Date      | Tuesday, October 29, 2024                              |
|                           | Page Create Time      | 21:45:55   |
|                           | Design Create Date    | Monday, October 28, 2024                               |
|                           | Design Create Time    | 09:59:52   |
|                           | Schematic Create Date | Monday, October 28, 2024                               |
|                           | Schematic Create Time | 09:59:54   |
|                           | Doc                   | SDCARD SCHEMAITC                                       |
|                           | Page Number           | 5  |
|                           | OrgAddr4              |  |
|                           | OrgAddr3              |  |
|                           | OrgAddr2              |  |
|                           | OrgAddr1              |  |
|                           | OrgName               |  |
|                           | Cage Code             |  |
|                           | RevCode               | Design by Mai Xuan Canh                                |
|                           | Page Count            | 5  |
|                           | Title                 | CNC MACHINE DEVELOP BOARD                              |
|                           | TITLEBLOCK0           |  |
|                           | Name                  | TitleBlock0  |
|                           | Design Name           | CNCMACHINE   |
|                           | Design File Name      | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Design Modify Date    | Sunday, November 10, 2024                              |
|                           | Design Modify Time    | 19:08:32   |
|                           | Schematic Name        | SCHEMATIC1   |
|                           | Schematic Modify Date | Sunday, November 10, 2024                              |
|                           | Schematic Modify Time | 19:08:34   |
|                           | Schematic Page Count  | 0  |
|                           | Schematic Page Number | 0  |
|                           | Page Size             | A  |
|                           | Page Modify Date      | Sunday, November 10, 2024                              |
|                           | Page Modify Time      | 19:08:32   |
|                           | Source Library        | D:\ALLEGRO\PROJECT\CANHMAI\CNCMACHINEDEVELOPBOARD\DONE |
|                           | Source Symbol         | TITLEBLOCK0  |
|                           | Page Name             | SDCARD   |
|                           | OriginalSymbolOrigin  | (0,0)  |

| Object        | Property Name        | Property Value  |
|---------------|----------------------|---|
| INS2739 : J18 | Name                 | INS2739   |
|               | ID                   | 415   |
|               | Reference            | J18   |
|               | Designator           |   |
|               | Part Reference       | J18   |
|               | Value                | MSD-1-A   |
|               | Primitive            | DEFAULT   |
|               | Implementation Type  | <none>  |
|               | Implementation       |   |
|               | Implementation Path  |   |
|               | PCB Footprint        | CUI_MSD-1-A   |
|               | SnapEDA_Link         | <a href="https://www.snapeda.com/parts/MSD-1-A/CUI+Devices/view-part/?ref=snapeda">https://www.snapeda.com/parts/MSD-1-A/CUI+Devices/view-part/?ref=snapeda</a>                   |
|               | Description          | Micro SD Card Connector, 9 Positions, Connector and Ejector, Push In, Auto Lock   |
|               | Package              | None  |
|               | CUI_purchase_URL     | <a href="https://www.cuidevices.com/product/interconnect/connectors/memory-card-connectors">https://www.cuidevices.com/product/interconnect/connectors/memory-card-connectors</a> |
|               | MF                   | CUI Devices   |
|               | MP                   | MSD-1-A   |
|               | Check_prices         | <a href="https://www.snapeda.com/parts/MSD-1-A/CUI+Devices/view-part/?ref=eda">https://www.snapeda.com/parts/MSD-1-A/CUI+Devices/view-part/?ref=eda</a>                           |
|               | OriginalSymbolOrigin | (0,0)   |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| CD : J18/CD | Name          | CD             |
|             | Number        | CD             |
|             | Swap Id       | -1             |
|             | Type          | Passive        |
|             | Net Name      |                |
|             | Order         | 0              |
|             | Is No Connect | True           |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| COVER_GND : J18/COVER_GND | Name          | COVER_GND      |
|                           | Number        | G2             |
|                           | Swap Id       | -1             |
|                           | Type          | Power          |
|                           | Net Name      | GND            |
|                           | Order         | 1              |
|                           | Is No Connect | False          |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| COVER_GND : J18/COVER_GND | Name          | COVER_GND      |
|                           | Number        | G1             |
|                           | Swap Id       | -1             |
|                           | Type          | Power          |
|                           | Net Name      | GND            |
|                           | Order         | 2              |
|                           | Is No Connect | False          |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| COVER_GND : J18/COVER_GND | Name          | COVER_GND      |
|                           | Number        | G4             |
|                           | Swap Id       | -1             |
|                           | Type          | Power          |
|                           | Net Name      | GND            |
|                           | Order         | 3              |
|                           | Is No Connect | False          |

| Object                    | Property Name | Property Value |
|---------------------------|---------------|----------------|
| COVER_GND : J18/COVER_GND | Name          | COVER_GND      |
|                           | Number        | G3             |
|                           | Swap Id       | -1             |
|                           | Type          | Power          |
|                           | Net Name      | GND            |
|                           | Order         | 4              |
|                           | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| DAT2 : J18/DAT2 | Name          | DAT2           |
|                 | Number        | 1              |
|                 | Swap Id       | -1             |
|                 | Type          | Bidirectional  |
|                 | Net Name      |                |
|                 | Order         | 5              |
|                 | Is No Connect | True           |

| Object                | Property Name | Property Value |
|-----------------------|---------------|----------------|
| CD/DAT3 : J18/CD/DAT3 | Name          | CD/DAT3        |
|                       | Number        | 2              |
|                       | Swap Id       | -1             |
|                       | Type          | Bidirectional  |
|                       | Net Name      | CS_LLS         |
|                       | Order         | 6              |
|                       | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| CMD : J18/CMD | Name          | CMD            |
|               | Number        | 3              |
|               | Swap Id       | -1             |
|               | Type          | Bidirectional  |
|               | Net Name      | DI_LLS         |
|               | Order         | 7              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VDD : J18/VDD | Name          | VDD            |
|               | Number        | 4              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | 3V3            |
|               | Order         | 8              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| CLK : J18/CLK | Name          | CLK            |
|               | Number        | 5              |
|               | Swap Id       | -1             |
|               | Type          | Input          |
|               | Net Name      | SCK_LLS        |
|               | Order         | 9              |
|               | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VSS : J18/VSS | Name          | VSS            |
|               | Number        | 6              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 10             |
|               | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| DAT0 : J18/DAT0 | Name          | DAT0           |
|                 | Number        | 7              |
|                 | Swap Id       | -1             |
|                 | Type          | Bidirectional  |
|                 | Net Name      | DO_LLS         |
|                 | Order         | 11             |
|                 | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| DAT1 : J18/DAT1 | Name          | DAT1           |
|                 | Number        | 8              |
|                 | Swap Id       | -1             |
|                 | Type          | Bidirectional  |
|                 | Net Name      |                |
|                 | Order         | 12             |
|                 | Is No Connect | True           |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2645 : R23 | Name                 | INS2645        |
|               | ID                   | 429            |
|               | Reference            | R23            |
|               | Designator           |                |
|               | Part Reference       | R23            |
|               | Value                | 3K3            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R23/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N026450        |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R23/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | CS             |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2659 : U17 | Name                 | INS2659        |
|               | ID                   | 432            |
|               | Reference            | U17            |
|               | Designator           |                |
|               | Part Reference       | U17            |
|               | Value                | 74LVC125APW    |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | IC_74LVC125APW |
|               | OriginalSymbolOrigin | (0,0)          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| 1!OE : U17/1!OE | Name          | 1!OE           |
|                 | Number        | 1              |
|                 | Swap Id       | -1             |
|                 | Type          | Input          |
|                 | Net Name      | GND            |
|                 | Order         | 0              |
|                 | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 1A : U17/1A | Name          | 1A             |
|             | Number        | 2              |
|             | Swap Id       | -1             |
|             | Type          | Input          |
|             | Net Name      | N026591        |
|             | Order         | 1              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 1Y : U17/1Y | Name          | 1Y             |
|             | Number        | 3              |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | DI_LLS         |
|             | Order         | 2              |
|             | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| 2!OE : U17/2!OE | Name          | 2!OE           |
|                 | Number        | 4              |
|                 | Swap Id       | -1             |
|                 | Type          | Input          |
|                 | Net Name      | GND            |
|                 | Order         | 3              |
|                 | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 2A : U17/2A | Name          | 2A             |
|             | Number        | 5              |
|             | Swap Id       | -1             |
|             | Type          | Input          |
|             | Net Name      | N026594        |
|             | Order         | 4              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 2Y : U17/2Y | Name          | 2Y             |
|             | Number        | 6              |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | SCK_LLS        |
|             | Order         | 5              |
|             | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| GND : U17/GND | Name          | GND            |
|               | Number        | 7              |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | GND            |
|               | Order         | 6              |
|               | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 3Y : U17/3Y | Name          | 3Y             |
|             | Number        | 8              |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | CS_LLS         |
|             | Order         | 7              |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 3A : U17/3A | Name          | 3A             |
|             | Number        | 9              |
|             | Swap Id       | -1             |
|             | Type          | Input          |
|             | Net Name      | N026450        |
|             | Order         | 8              |
|             | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| 3!OE : U17/3!OE | Name          | 3!OE           |
|                 | Number        | 10             |
|                 | Swap Id       | -1             |
|                 | Type          | Input          |
|                 | Net Name      | GND            |
|                 | Order         | 9              |
|                 | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 4Y : U17/4Y | Name          | 4Y             |
|             | Number        | 11             |
|             | Swap Id       | -1             |
|             | Type          | Output         |
|             | Net Name      | MISO           |
|             | Order         | 10             |
|             | Is No Connect | False          |

| Object      | Property Name | Property Value |
|-------------|---------------|----------------|
| 4A : U17/4A | Name          | 4A             |
|             | Number        | 12             |
|             | Swap Id       | -1             |
|             | Type          | Input          |
|             | Net Name      | N0265911       |
|             | Order         | 11             |
|             | Is No Connect | False          |

| Object        | Property Name | Property Value |
|---------------|---------------|----------------|
| VCC : U17/VCC | Name          | VCC            |
|               | Number        | 13             |
|               | Swap Id       | -1             |
|               | Type          | Power          |
|               | Net Name      | 3V3            |
|               | Order         | 12             |
|               | Is No Connect | False          |

| Object          | Property Name | Property Value |
|-----------------|---------------|----------------|
| 4!OE : U17/4!OE | Name          | 4!OE           |
|                 | Number        | 14             |
|                 | Swap Id       | -1             |
|                 | Type          | Input          |
|                 | Net Name      | GND            |
|                 | Order         | 13             |
|                 | Is No Connect | False          |



| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2697 : R22 | Name                 | INS2697        |
|               | ID                   | 447            |
|               | Reference            | R22            |
|               | Designator           |                |
|               | Part Reference       | R22            |
|               | Value                | 3K3            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R22/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N026594        |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R22/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | SCK            |
|           | Order         | 1              |
|           | Is No Connect | False          |
|           |               |                |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2711 : R21 | Name                 | INS2711        |
|               | ID                   | 450            |
|               | Reference            | R21            |
|               | Designator           |                |
|               | Part Reference       | R21            |
|               | Value                | 3K3            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R21/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N026591        |
|           | Order         | 0              |
|           | Is No Connect | False          |
|           |               |                |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R21/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | MOSI           |
|           | Order         | 1              |
|           | Is No Connect | False          |

| Object        | Property Name        | Property Value |
|---------------|----------------------|----------------|
| INS2725 : R24 | Name                 | INS2725        |
|               | ID                   | 453            |
|               | Reference            | R24            |
|               | Designator           |                |
|               | Part Reference       | R24            |
|               | Value                | 3K3            |
|               | Primitive            | DEFAULT        |
|               | Implementation Type  | <none>         |
|               | Implementation       |                |
|               | Implementation Path  |                |
|               | PCB Footprint        | RESC1508X55N   |
|               | OriginalSymbolOrigin | (0,0)          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 1 : R24/1 | Name          | 1              |
|           | Number        | 1              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | N0265911       |
|           | Order         | 0              |
|           | Is No Connect | False          |

| Object    | Property Name | Property Value |
|-----------|---------------|----------------|
| 2 : R24/2 | Name          | 2              |
|           | Number        | 2              |
|           | Swap Id       | -1             |
|           | Type          | Passive        |
|           | Net Name      | DO_LLS         |
|           | Order         | 1              |
|           | Is No Connect | False          |