

## Bill Of Materials for Test Kamerton

**Design Title** Test Kamerton  
**Author** Мосейчук А.В  
**Document Number** Kamerton2\_7  
**Revision** Kamerton2\_7  
**Design Created** 25 сентября 2015 г.  
**Design Last Modified** 2 октября 2015 г.  
**Total Parts In Design** 369

### 0 Modules

| <a href="#">Quantity</a> | <a href="#">References</a> | <a href="#">Value</a> | <a href="#">Stock Code</a> | <a href="#">Unit Cost</a> |
|--------------------------|----------------------------|-----------------------|----------------------------|---------------------------|
| Sub-totals:              |                            |                       |                            | p.0.00                    |

### 65 Capacitors

| <a href="#">Quantity</a> | <a href="#">References</a>   | <a href="#">Value</a> | <a href="#">Stock Code</a> | <a href="#">Unit Cost</a> |
|--------------------------|--|-----------------------|----------------------------|---------------------------|
| 2                        | C1-C2  | 10 pF                 | Digikey<br>478-1422-6-ND   |                           |
| 4                        | C3, C33, C43, C45  | 33u                   | Digikey<br>399-3050-2-ND   |                           |
| 2                        | C4-C5  | 180u                  | Digikey<br>399-3056-2-ND   |                           |
| 27                       | C6-C9, C11-C15, C17, C30, C34, C38-C39, C44, C54, C26-2, C26-6-C26-8, C26-12, C26-19-C26-20, C26-26, C26-34-C26-36 | 0.22u                 | Digikey<br>478-1422-6-ND   |                           |
| 1                        | C10  | 22 pF                 | Digikey<br>478-1422-6-ND   |                           |
| 1                        | C16  | 100n                  | Digikey<br>478-1422-6-ND   |                           |
| 15                       | C18, C26, C31-C32, C40-C42, C46-C53  | 1.0u                  | Digikey<br>PCC2234TR-ND    |                           |
| 10                       | C19-C25, C35-C37   | 0.1u                  | Digikey<br>PCC391ACVTR-ND  |                           |
| 1                        | C27  | 1000pF                | Digikey<br>PCC102CGDKR-ND  |                           |
| 1                        | C28  | 390pF                 | Digikey<br>PCC391ACVTR-ND  |                           |
| 1                        | C29  | 0,47                  | Digikey<br>PCC391ACVTR-ND  |                           |
| Sub-totals:              |  |                       |                            | p.0.00                    |

### 193 Resistors

| <a href="#">Quantity</a> | <a href="#">References</a>   | <a href="#">Value</a> | <a href="#">Stock Code</a> | <a href="#">Unit Cost</a> |
|--------------------------|--|-----------------------|----------------------------|---------------------------|
| 1                        | R1   | 1.0M                  | Digikey<br>P1.00MHTR-ND    |                           |
| 3                        | R2, R12-R13  | 22R                   | Digikey<br>P1.00MHTR-ND    |                           |
| 3                        | R3-R4, R9  | 10k                   | Digikey<br>P1.00MHTR-ND    |                           |
| 6                        | R5-R6, R10-R11, R43-R44  | 470                   | Digikey<br>P1.00MHTR-ND    |                           |
| 45                       | R7, R24-R26, R28-R30, R32-R33, R37-R39, R67, R69-R72, R81-R90, R93-R102, R108-R113, R131, R162 | 10K                   | Digikey<br>P1.2KZTR-ND     |                           |
| 4                        | R8, R75, R107, R179  | 24k                   | Digikey<br>P1.2KZTR-ND     |                           |

|    |   |      |                         |
|----|---|------|-------------------------|
| 1  | R14   | 680K | Digikey<br>P1.00MHTR-ND |
| 1  | R15   | 3.3K | Digikey<br>P1.00MHTR-ND |
| 1  | R16   | 200  | Digikey<br>P1.00MHTR-ND |
| 1  | R17   | 470K | Digikey<br>P1.00MHTR-ND |
| 1  | R18   | 1.5M | Digikey<br>P1.00MHTR-ND |
| 1  | R19   | 1.5K | Digikey<br>P1.2KCBTR-ND |
| 1  | R20   | 470k | Digikey<br>P1.2KCBTR-ND |
| 20 | R21-R23, R40-R42, R46-R49, R56-R65  | 910  | Digikey<br>P1.2KZTR-ND  |
| 1  | R27   | 1.2k | Digikey<br>P1.2KZTR-ND  |
| 2  | R31, R132   | 15K  | Digikey<br>P1.2KZTR-ND  |
| 7  | R34-R36, R68, R117, R171, R184  | 24K  | Digikey<br>P1.2KZTR-ND  |
| 2  | R45, R54  | 27R  | Digikey<br>P1.00MHTR-ND |
| 6  | R50, R76-R78, R161, R180  | 100k | Digikey<br>P1.2KZTR-ND  |
| 14 | R51, R55, R79, R104, R114-R115, R150, R168-R169, R174-R175, R177, R181-R182 | 10k  | Digikey<br>P1.2KZTR-ND  |
| 4  | R52, R164, R166, R192   | 24K  | Digikey<br>P1.2KCBTR-ND |
| 4  | R53, R165, R167, R193   | 100K | Digikey<br>P1.2KCBTR-ND |
| 6  | R66, R116, R151-R152, R170, R183  | 100K | Digikey<br>P1.2KZTR-ND  |
| 8  | R73-R74, R163, R172-R173, R178, R185-R186                                   | 20K  | Digikey<br>P1.2KCBTR-ND |
| 2  | R80, R149   | 10K  | Digikey<br>P1.2KCBTR-ND |
| 2  | R91, R176   | 15k  | Digikey<br>P1.2KZTR-ND  |
| 3  | R92, R103, R105   | 3.3K | Digikey<br>P1.2KCBTR-ND |
| 1  | R106  | 1K   | Digikey<br>P1.2KZTR-ND  |
| 22 | R118-R120, R122, R124, R127-R130, R147-R148, R153-R158, R187-R191           | 10   | Digikey<br>P1.2KZTR-ND  |
| 2  | R121, R123  | 1,3  | Digikey<br>P1.2KZTR-ND  |
| 2  | R125-R126   | 1.3  | Digikey<br>P1.2KZTR-ND  |
| 2  | R133-R134   | 1k   | M1k                     |
| 3  | R135-R137   | 30   | M1k                     |
| 6  | R138-R143   | 3.3k | Digikey<br>P1.2KZTR-ND  |
| 3  | R144-R146   | 470  | Digikey<br>P1.2KZTR-ND  |
| 1  | R159  | 22   | Digikey<br>P1.2KZTR-ND  |
| 1  | R160  | 510  | Digikey<br>P1.2KZTR-ND  |

Sub-totals: p.0.00

### 35 Integrated Circuits

| <u>Quantity</u> | <u>References</u>             | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------------------|--------------|-------------------|------------------|
| 1               | U1                            | ATMEGA2560   |                   |                  |
| 1               | U2                            | AT24C32      |                   |                  |
| 1               | U3                            | LM1117-3,3   |                   |                  |
| 2               | U4, U30                       | FT232RL      |                   |                  |
| 7               | U5-U6, U8, U13, U29, U34, U36 | LM358        |                   |                  |
| 1               | U7                            | DS1307       |                   |                  |
| 4               | U9-U11, U14                   | ULN2803      |                   |                  |
| 1               | U12                           | ASC512-05    |                   |                  |
| 10              | U15-U18, U22-U25, U31-U32     | PVT422       |                   |                  |
| 1               | U19                           | MCP23017/5   |                   |                  |
| 1               | U20                           | AD5242BR100  |                   |                  |
| 1               | U21                           | LM1117-2,5   |                   |                  |
| 1               | U26                           | MCP23017/4   |                   |                  |
| 2               | U27-U28                       | TRS3238CPWR  |                   |                  |
| 1               | U35                           | MCP23017/6   |                   |                  |

Sub-totals: p.0.00

### 0 Transistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
|-----------------|-------------------|--------------|-------------------|------------------|

Sub-totals: p.0.00

### 11 Diodes

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| 6               | D1-D3, D7-D9      | LED          |                   |                  |
| 2               | D4-D5             | 1N5711W1     |                   |                  |
| 2               | D6, D14           | LED-RED      |                   |                  |
| 1               | D15               | LED-BLUE     |                   |                  |

Sub-totals: p.0.00

### 65 Miscellaneous

| <u>Quantity</u> | <u>References</u> | <u>Value</u>  | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|---------------|-------------------|------------------|
| 1               | B1                | 3.6V          |                   |                  |
| 1               | ICSP              | CONN-DIL6     |                   |                  |
| 1               | J1                | COMMUNICATION |                   |                  |
| 1               | J2                | PWML          |                   |                  |
| 1               | J3                | ADCL          |                   |                  |
| 1               | J4                | ADCH          |                   |                  |
| 1               | J5                | PWMH          |                   |                  |
| 1               | J6                | POWER         |                   |                  |
| 2               | J7, J11           | AU-Y1007-R1   |                   |                  |
| 1               | J8                | CONN-D25F     |                   |                  |
| 1               | J9                | CONN-DIL36    |                   |                  |
| 3               | J10, J22, J30     | CONN-SIL6     |                   |                  |
| 1               | J12               | CONN-DIL16_1  |                   |                  |
| 2               | J13, J15          | CONN-SIL15    |                   |                  |
| 1               | J14               | CONN-D9F      |                   |                  |
| 6               | J16-J19, J24, J27 | CONN-SIL1     |                   |                  |
| 4               | J20-J21, J29, J31 | CONN-SIL2     |                   |                  |
| 2               | J23, J28          | CONN-SIL3     |                   |                  |
| 1               | J25               | CONN-DIL30    |                   |                  |
| 1               | J26               | CONN-D25M     |                   |                  |
| 1               | J32               | CONN-DIL8     |                   |                  |

|    |                  |                 |                           |
|----|------------------|-----------------|---------------------------|
| 2  | J24 GEN, J25 GEN | CONN-SIL10      |                           |
| 11 | RL0-RL10         | OMI-SH-212D     |                           |
| 1  | RV1              | 6.8K            | Digikey<br>3252W-103LF-ND |
| 1  | RV2              | 10K             | Digikey<br>3252W-103LF-ND |
| 1  | SW1              | BUTTON          |                           |
| 1  | SW2              | BUTTON2         |                           |
| 4  | TR1-TR4          | TRAN-SM-LP-5001 |                           |
| 2  | X1-X2            | CRYSTAL         |                           |
| 1  | XP1              | CONN-DIL20      |                           |
| 1  | XP3              | ПТС             |                           |
| 1  | XP4              | ПТС1            |                           |
| 1  | XP5              | МАГ             |                           |
| 1  | XP6              | ПТС2            |                           |
| 1  | XP7              | Танг.р          |                           |
| 1  | XP8              | Танг.н          |                           |
| 1  | XS1              | CONN-DIL6TEL    |                           |

Sub-totals: p.0.00

Totals: p.0.00

2 октября 2015 г. 11:59:48