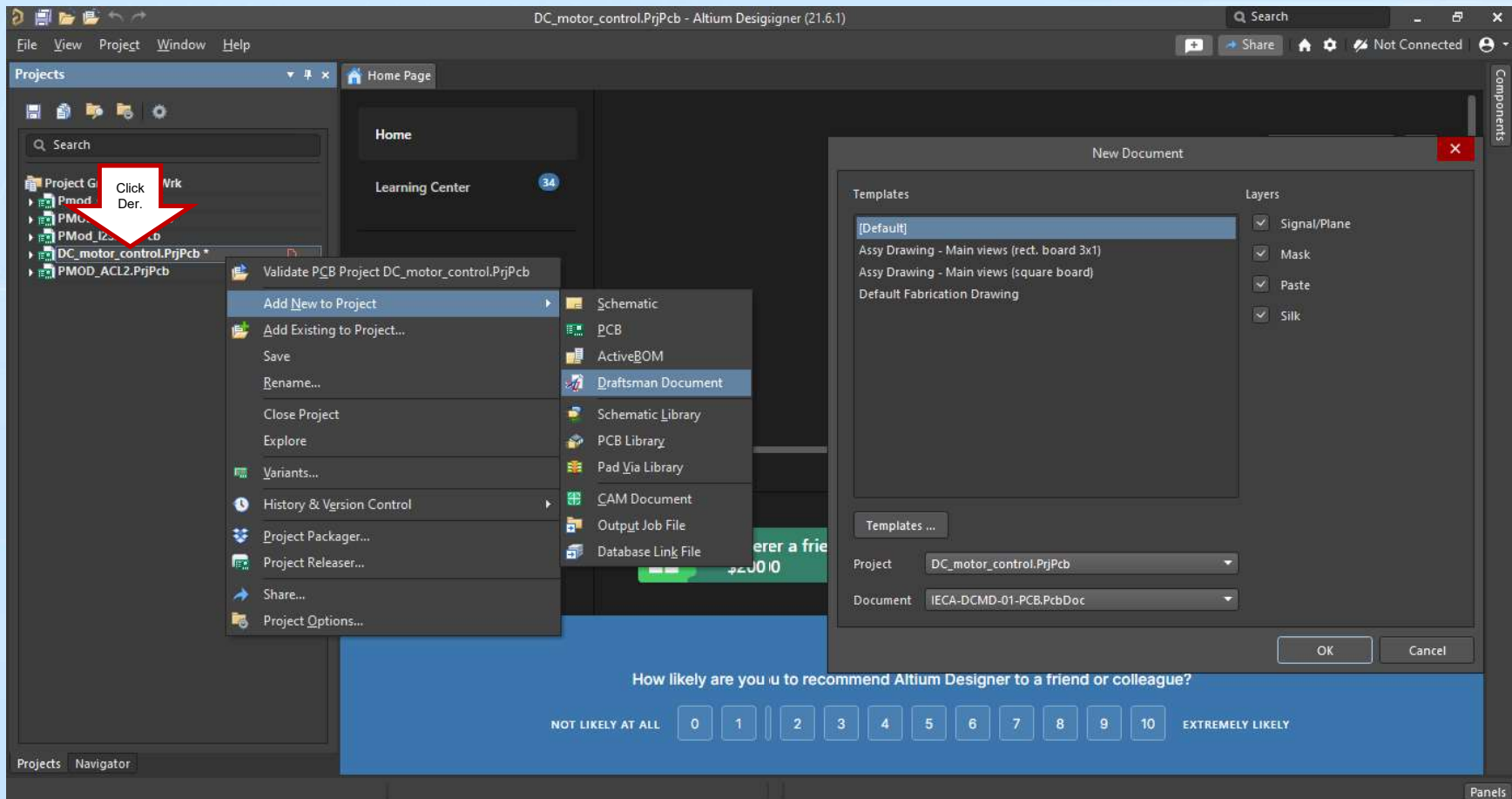


Generación De Drafmans



Draftman De Fabricación - Ejemplo

DC_motor_control.PrjPcb - Altium Designer (21.6.1)

File Edit View Project Place Tools Window Help

Projects

Search

Project Group 1.DsnWrk

- Pmod_CAN.PrjPcb
- Pmod_ESP32.PrjPcb
- Pmod_I2S2.PrjPcb
- DC_motor_control.PrjPcb *
- Source Documents
 - [1] IECA-DCMD-01-SCH.SchDoc
 - IECA-DCMD-01-PCB.PcbDoc
 - IECA-DCMD-01-PCB.PCBDwf *
- Libraries
- Generated
- Pmod_ACL2.PrjPcb

Home Page IECA-DCMD-01-PCB.PCBDwf *

Drill Drawing View

Note:

- 1 Text element with square border.
- 2 Text element with no border
- 3 Text element with circle border
- 4 Text element with no border
- 5 Text element with no border
- 6 Text element with no border
- 7 Text element with no border

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
○	4	2.00	Non-Plated	+/-0.10
□	4	1.30	Plated	+/-0.08
▽	2	1.50	Non-Plated	+/-0.10
□	10	0.30	Plated	+/-0.15
□	1	0.30	Plated	+/-0.10

Centro de Diseño Electrónico y Circuitos Integrados IECA Cinvestav Guadalajara GTO

Unpublished and not for publication. All rights reserved.

Drawn by: Date:

Checked: Date:

Elec. Eng.: Date:

Master Fabrication Drawing:

Scale: DWG No.: Rev.:

Sheet: 1 of 3

Projects Navigator

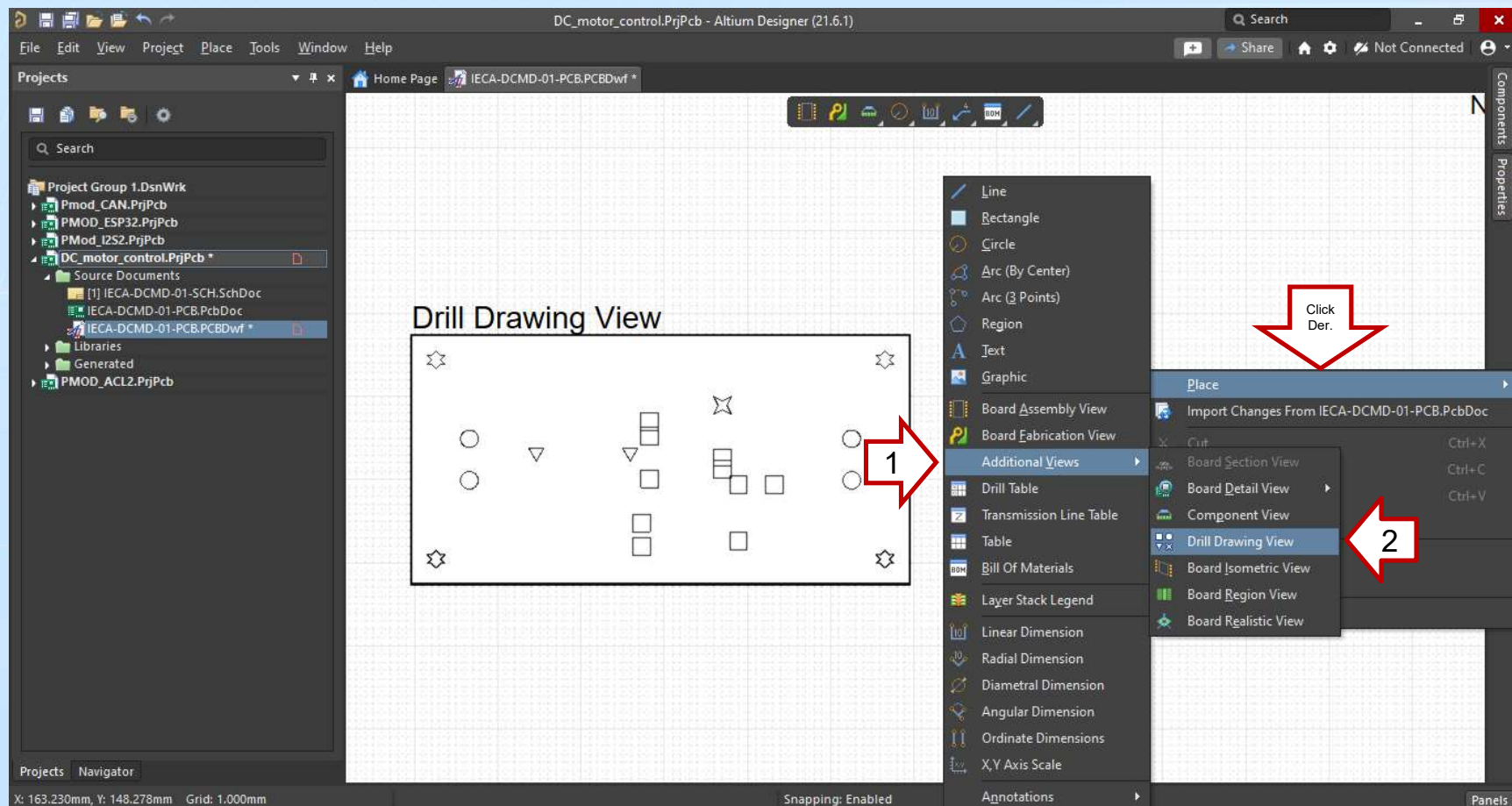
X: 89.578mm, Y: 74.048mm Grid: 1.000mm

Snapping: Enabled

Components Properties

Panels

Agregar Drill Drawing View



Agregar tabla de perforaciones (Drill table)

The screenshot shows the Altium Designer (21.6.1) interface. The 'Drill Table' menu is open, displaying a list of drawing tools and a 'Place' submenu. The 'Place' submenu includes options like 'Import Changes From IECA-DCMD-01-PCB.PcbDoc', 'Cut', 'Copy', 'Paste', 'Format Painter', 'Add New Sheet', 'Remove Sheet', and 'Item Properties...'. A sample 'Drill Table' is also visible, containing the following data:

Symbol	Count	Hole Size	Plated	Hole Tolerance
⊛	4	2.00	Non-Plated	+/-0.10
○	4	1.30	Plated	+/-0.08
▽	2	1.50	Non-Plated	+/-0.10
□	10	0.30	Plated	+/-0.15
⊛	1	0.30	Plated	+/-0.10

The interface also shows the 'Projects' panel on the left with a tree view of the project structure, including 'DC_motor_control.PrjPcb' and its associated documents. The status bar at the bottom indicates 'X: 142.213mm, Y: 142.266mm Grid: 1.000mm' and 'Snapping: Enabled'.

Notas de fabricación

1. FOR SOLDERMASK TOP USE ARTWORKS NO. 0250-01-ART(2), REVISION A.
2. FINISH MUST BE HASL LEAD FREE
3. FOR BOARD CONFIGURATION REFER TO SOLDERMASK BOTTOM USE ARTWORK NO. 0250-01-ART (07)
4. PRINT VENDOR IDENTIFICATION AND DATE CODE THIS AREA, IN "SILKSCREEN - SECONDARY SIDE" ONLY. SHOULD BE 0.08" FREE OF ANY UNCIVERED COPPER.
5. SILKSCREEN: MUST BE WHITE COLOR, SIDE SHOWN USING SHT. 2 TOP LAYER AND SHT. 9 BOTTOM LAYER, NO SILKSCREEN ON EXPOSED LANDS.
6. SOLDERMASK MUST BE BLUE COLOR, LIQUID PHOTOIMAGEABLE (LPI), USE SHT. 3 TOP SIDE AND SHT. 8 BOTTOM SIDE. MAXIMUM CLEARANCE AROUND LANDS, SMD OR THT AND DRILLS TO BE 0.003".
7. ALL HOLES MUST BE PRIMARY DRILLED.
8. MAXIMUM ETCH TOLERANCE TO BE +/- 0.002 FOR ALL ARTWORK FEATURES.
9. DO NOT PLATE VIA HOLES SHUNT WITH COPPER.
10. ANY CHANGE TO STACK-UP NEED TO BE APPROVED BY MiguelR.
11. SOME VIAS ARE INTENTIONALLY COVERED BY SOLDERMASK ON BOTTON SIDE
12. DIELECTRIC MATERIAL: HIGH TG FR4, TG>175 DEGREES CELSIUS.

Agregar Stack - Up

The screenshot shows the Altium Designer (21.6.1) interface. The main workspace displays a grid with a layer stack legend on the left. The legend shows the following layers from top to bottom:

Layer	Material	Thickness	Dielectric Material
Top Overlay	Surface Material	0.01mm	Solder Res
Top Layer	Copper	0.04mm	FR-4
Bottom Layer	Copper	0.04mm	FR-4
Bottom Solder	Surface Material	0.01mm	Solder Res
Bottom Overlay	Surface Material	0.01mm	Solder Res

The total thickness is 0.41mm. The Place menu is open, showing options like Line, Rectangle, Circle, Arc (By Center), Arc (3 Points), Region, Text, Graphic, Board Assembly View, Board Fabrication View, Additional Views, Drill Table, Transmission Line Table, Table, Bill Of Materials, Layer Stack Legend, Linear Dimension, Radial Dimension, Diametral Dimension, Angular Dimension, Ordinate Dimensions, XY Axis Scale, and Annotations. The Place menu is also open, showing options like Import Changes From IECA-DCMD-01-PCB.PcbDoc, Cut, Copy, Paste, Format Painter, Add New Sheet, Remove Sheet, and Item Properties...

Agregar las capas del PCB

DC_motor_control.PrjPcb - Altium Designer (21.6.1)

File Edit View Project Place Tools Window Help

Projects

Search

Project Group 1.DsnWrk

- Pmod_CAN.PrjPcb
- PMod_ESP32.PrjPcb
- PMod_I2S2.PrjPcb
- DC_motor_control.PrjPcb *

 - Source Documents
 - [1] IECA-DCMD-01-SCH.SchDoc
 - IECA-DCMD-01-PCB.PcbDoc
 - IECA-DCMD-01-PCB.PCBDwf *
 - Libraries
 - Generated

- PMod_ACL2.PrjPcb

Top Layer (Scale 1:1)

Line

Rectangle

Circle

Arc (By Center)

Arc (3 Points)

Region

Text

Graphic

Board Assembly View

Board Fabrication View

Additional Views

Drill Table

Transmission Line Table

Table

Bill Of Materials

Layer Stack Legend

Linear Dimension

Radial Dimension

Diametral Dimension

Angular Dimension

Ordinate Dimensions

X,Y Axis Scale

Annotations

Place

- Import Changes From IECA-DCMD-01-PCB.PcbDoc
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Format Painter
- Add New Sheet
- Remove Sheet
- Item Properties...

X: 139.564mm, Y: 164.007mm Grid: 1.000mm Page 3 of 3 Snapping: Enabled

Draftman De Configuración - Ejemplo

Altium Designer (21.6.1) PMOD_ESP32.PrjPcb - IECA-DCMD-01-PCB.PCBdWf * CFG.PCBdWf

File Edit View Project Place Tools Window Help

Search

Share Not Connected

Projects

Project Group 1.DsnWrk

- Pmod_CAN.PrjPcb
- PMOD_ESP32.PrjPcb
- PMod_I2S2.PrjPcb
- DC_motor_control.PrjPcb *
- Source Documents
 - [1] IECA-DCMD-01-SCH.SchDoc
 - IECA-DCMD-01-PCB.PcbDoc
 - IECA-DCMD-01-PCB.PCBdWf *
- Libraries
- Generated
- PMOD_ACL2.PrjPcb

Configuration Drawing

Revision Block

Rev	Description	Date	Approved
A	IECA-ESP32-01-CFG	30/09/2021	Jorge De la Torre

DETAIL A (Scale 8:1)

Drill Drawing View (Scale 2:1)

CTS Proprietary

This document contains proprietary information of CTS and is not to be disclosed or use except in accordance with applicable agreements.

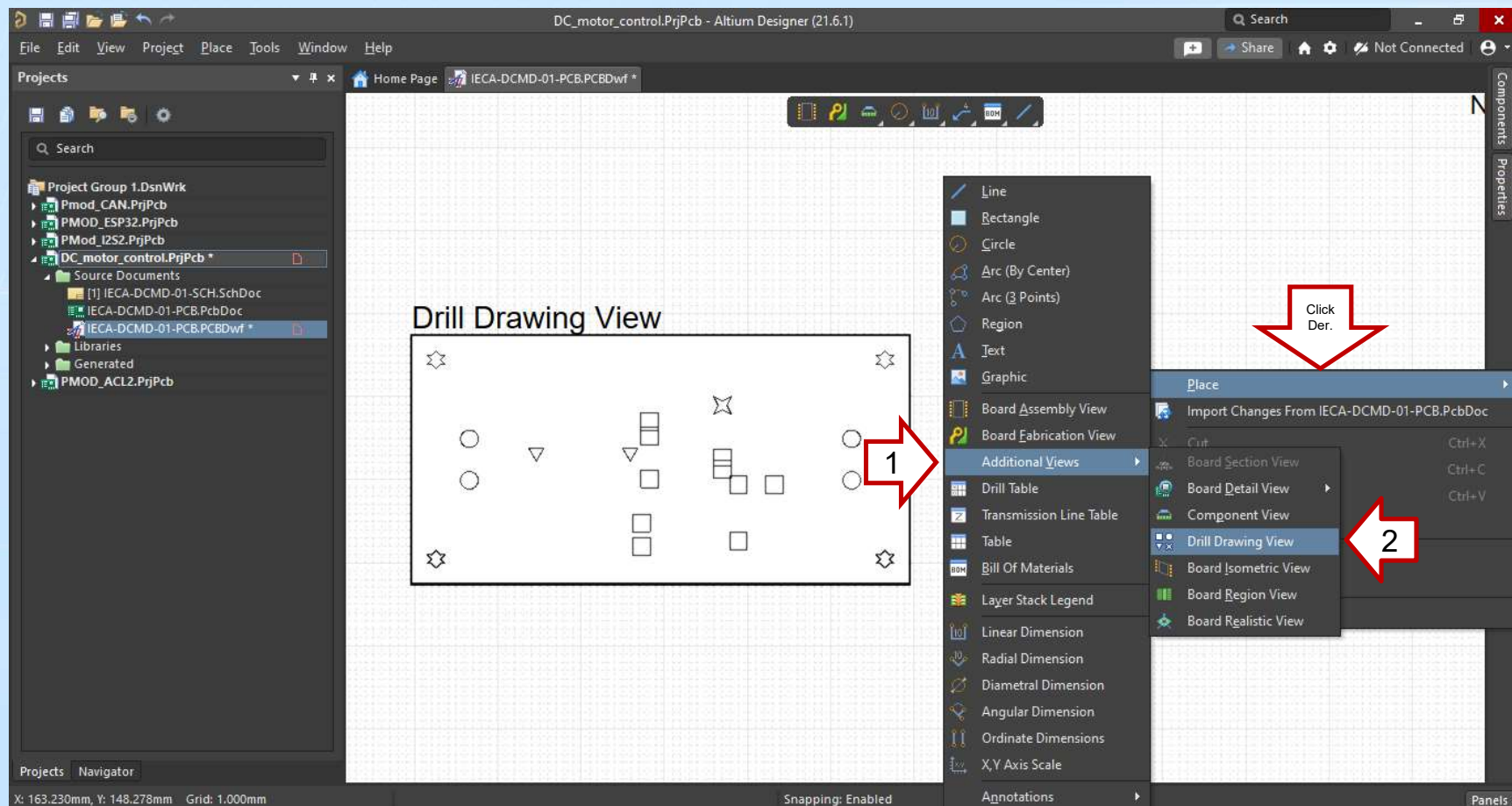
Unpublished and not for publication. All rights reserved.

Centro de Tecnología de Semiconductores

Drawn by:	Date	Configuration Drawing:
Erick Chávez	30/09/2021	PMOD ESP32
Checked: Jorge De la Torre	30/09/2021	Scale: 2:1
Elec. Eng.: Erick Chávez	30/09/2021	Sheet: 1 of 1
		DWG No.: IECA-ESP32-01-CFG
		Rev.: A

X: 41.329mm, Y: 162.614mm Grid: 5.000mm Page 1 of 1 Snapping: Enabled Panels

Agregar Drill Drawing View



Agregar cotas

The screenshot shows the Altium Designer (21.6.1) interface. The main workspace displays a "Configuration Drawing" of a PCB layout. The drawing includes a grid with dimensions in inches and millimeters. A context menu is open over the drawing, listing various drawing tools. The "Place" option is highlighted, and a red arrow points to it with the text "Click Der.".

Configuration Drawing Dimensions:

- [1965.000mil] 50.419mm
- [1171.000mil] 29.743mm
- [191.000mil] 3.835mm
- [135.000mil] 3.420mm
- [800.000mil] 20.320mm
- [25.000mil] 0.635mm

Context Menu Options:

- Line
- Rectangle
- Circle
- Arc (By Center)
- Arc (3 Points)
- Region
- Text
- Graphic
- Board Assembly View
- Board Fabrication View
- Additional Views
- Drill Table
- Transmission Line Table
- Table
- Bill Of Materials
- Layer Stack Legend
- Linear Dimension
- Radial Dimension
- Diametral Dimension
- Angular Dimension
- Ordinate Dimensions
- X,Y Axis Scale
- Annotations
- Place
- Import Changes From PMOD_ESP32.PcbDoc
- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Format Painter
- Add New Sheet
- Remove Sheet
- Item Properties...

Project Navigator:

- Project Group 1.DsnWrk
 - Pmod_CAN.PrjPcb
 - PMOD_ESP32.PrjPcb
 - PMod_I2S2.PrjPcb
 - DC_motor_control.PrjPcb *
 - Source Documents
 - [1] IECA-DCMD-01-SCH.SchDoc
 - IECA-DCMD-01-PCB.PcbDoc
 - IECA-DCMD-01-PCB.PCBDwf *
 - Libraries
 - Generated
 - PMOD_ACL2.PrjPcb

Page Information:

X: 228.930mm, Y: 92.396mm, Grid: 5.000mm, Page 1 of 1, Snapping: Enabled

Draftman De Ensamble - Ejemplo

Altium Designer (21.6.1) PMOD_ESP32.PrjPcb

File Edit View Project Place Tools Window Help

Projects

Search

Project Group 1.DsnWrk

- Pmod_CAN.PrjPcb
- PMOD_ESP32.PrjPcb**
- Pmod_I2S2.PrjPcb
- DC_motor_control.PrjPcb *
- Source Documents
 - [1] IECA-DCMD-01-SCH.SchDoc
 - IECA-DCMD-01-PCB.PcbDoc
 - IECA-DCMD-01-PCB.PCBDwf *
- Libraries
- Generated
- PMOD_ACL2.PrjPcb

Assembly Drawing

Notes:

1. FABRICATE USING ELECTRONIC FILES IDENTIFIED WITH TECHNICAL GROUP NUMBER ASSY-IECA-ESP32-01-PCB ZIP
2. FOR PASTE MASK TOP REFER TO ARTWORK NO. IECA-ESP32-01-PCB-ART(02).
3. FOR PASTE MASK BOTTOM REFER TO ARTWORK NO. IECA-ESP32-01-PCB-ART(07).
4. FOR COMPONENTS REFER TO BILL OF MATERIALS "IECA-ESP32-01-PCB-BOM".

View from Back side (Scale 3:2)

View from Top side (Scale 2:1)

View from Bottom side (Scale 2:1)

View from Front side (Scale 3:2)

CTS Proprietary

This document contains proprietary information of CTS and is not to be disclosed or used except in accordance with applicable agreements.

Unpublished and not for publication.

All rights reserved.

Centro de Tecnología de Semiconductores

Date		Assembly Drawing:	
Drawn by: Erick Chávez	30/09/2021	Pmod ESP32	
Checked: Jorge De la Torre	30/09/2021	Scale: NONE	DWG No.
Elec. Eng.: Erick Chávez	30/09/2021	Sheet: 1 of 1	Rev.: A

X: 147.010mm, Y: 70.409mm Grid: 1.000mm Page 1 of 1 Snapping: Enabled Panels

Agregar vistas de ensamble

The screenshot shows the Altium Designer (21.6.1) interface. The main workspace displays a PCB layout with three views: 'View from Back side (Scale 3:2)', 'View from Top side (Scale 2:1)', and 'View from Front side (Scale 3:2)'. The 'Assembly Drawing' menu is open, showing options like Line, Rectangle, Circle, Arc, Region, Text, Graphic, Board Assembly View, Board Fabrication View, Additional Views, Drill Table, Transmission Line Table, Table, Bill Of Materials, Layer Stack Legend, Linear Dimension, Radial Dimension, Diametral Dimension, Angular Dimension, Ordinate Dimensions, X,Y Axis Scale, and Annotations. A red arrow points to the 'Click Der.' button in the 'Place' submenu. The left panel shows the 'Projects' tree with 'Pmod_ESP32.PrjPcb' selected. The bottom status bar shows 'Page 1 of 1' and 'Snapping: Enabl'.

Assembly Drawing

- Line
- Rectangle
- Circle
- Arc (By Center)
- Arc (3 Points)
- Region
- Text
- Graphic
- Board Assembly View
- Board Fabrication View
- Additional Views
- Drill Table
- Transmission Line Table
- Table
- Bill Of Materials
- Layer Stack Legend
- Linear Dimension
- Radial Dimension
- Diametral Dimension
- Angular Dimension
- Ordinate Dimensions
- X,Y Axis Scale
- Annotations

Place

- Import Changes From Pmod_ESP32.PcbDoc
- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Format Painter
- Add New Sheet
- Remove Sheet
- Item Properties...

Notes:

USING ELECTRONIC FILES IDENTIFIED WITH GROUP NUMBER ASSY-IECA-ESP32-01-
MASK TOP REFER TO ARTWORK NO. IECA-CB-ART(02).
MASK BOTTOM REFER TO ARTWORK NO. 2-01-PCB-ART(07).
COMPONENTS REFER TO BILL OF MATERIALS 2-01-PCB-BOM".

Revision Block

Rev	Description	Date	Approved
1	IECA-ESP32-01-ASSY	10/09/2021	Jorge De la Torre

Projects

- Project Group 1.DsnWrk
 - Pmod_CAN.PrjPcb
 - Pmod_ESP32.PrjPcb
 - Pmod_I2S2.PrjPcb
 - DC_motor_control.PrjPcb *
 - Source Documents
 - [1] IECA-DCMD-01-SCH.SchDoc
 - IECA-DCMD-01-PCB.PcbDoc
 - IECA-DCMD-01-PCB.PCBDwf *
 - Libraries
 - Generated
 - Pmod_ACL2.PrjPcb

Page 1 of 1 | Snapping: Enabl