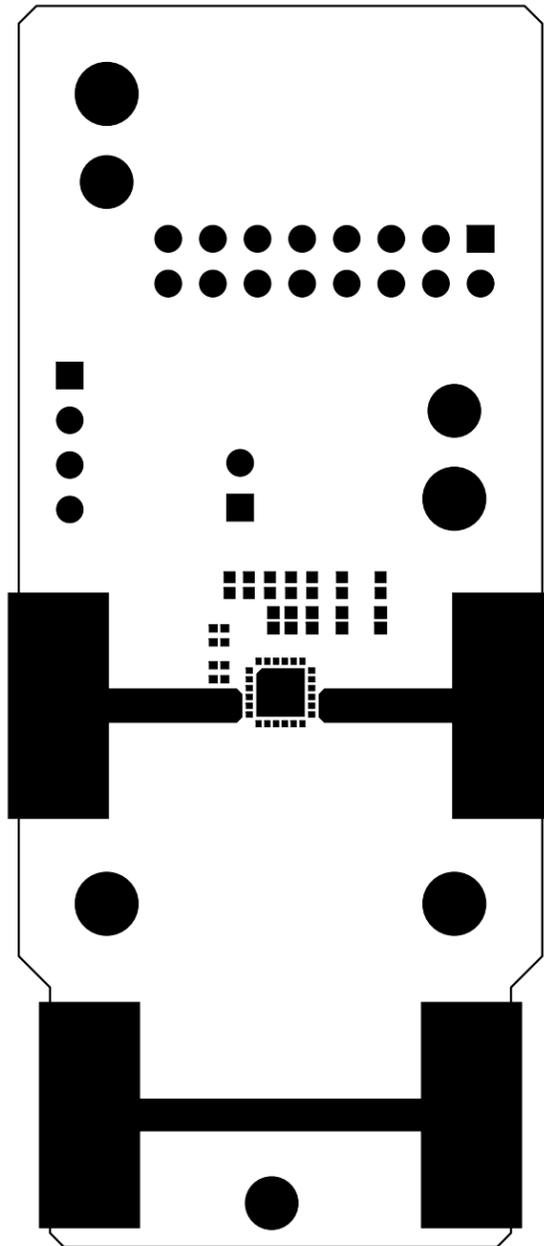
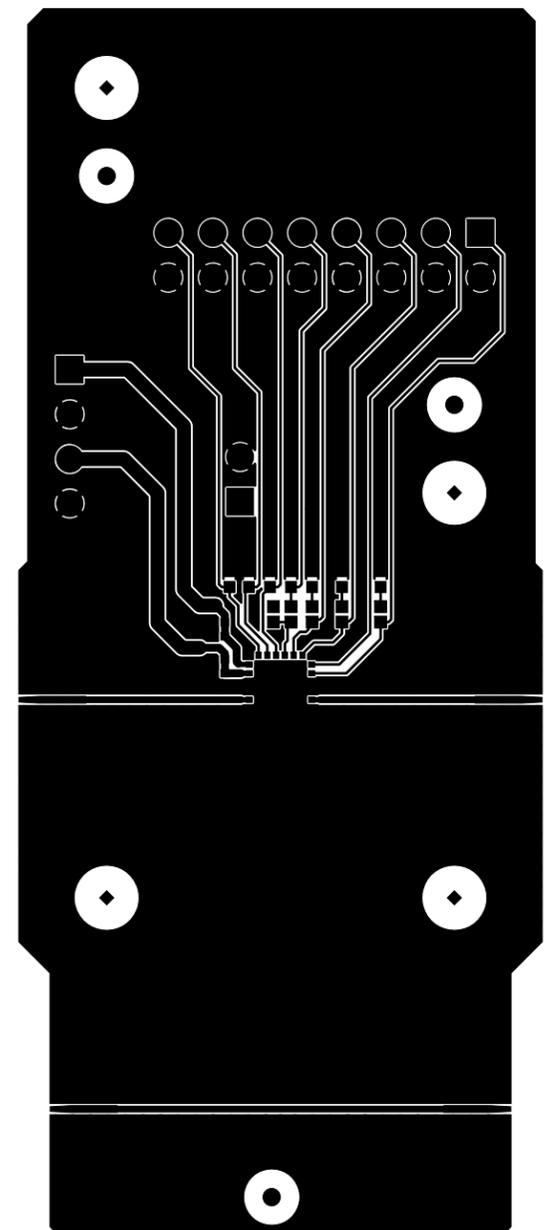


THRU-2X
J3 J4

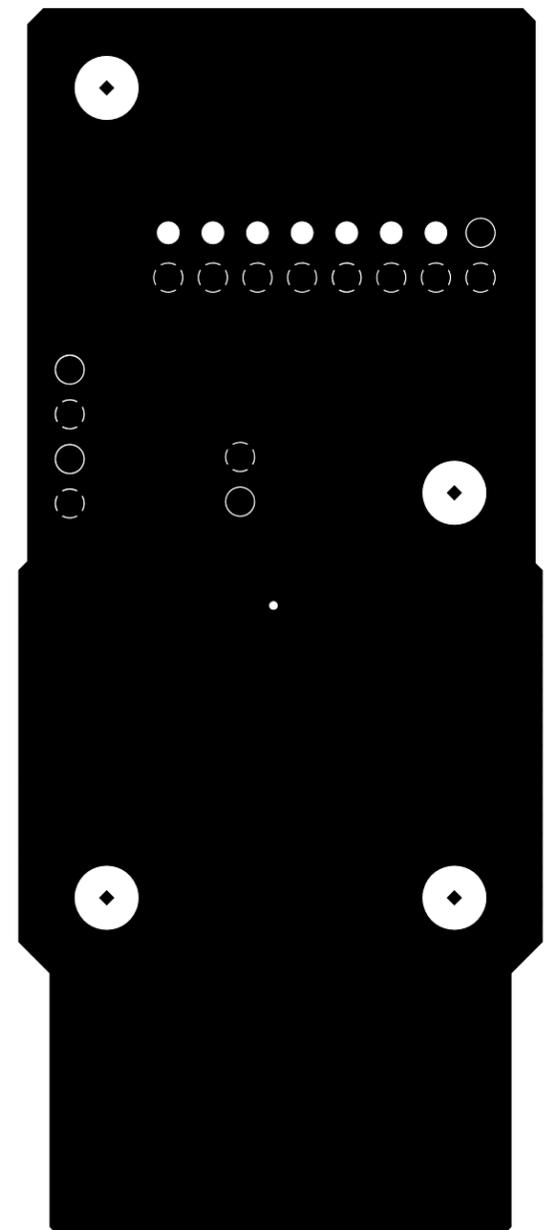
<p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
		SCHEMATIC NUMBER: DOC-95885	PART NUMBER: PRT-75266	REV: 01
<p>THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO PSEMI A MURARTA COMPANY THE INFORMATION IN THIS DOCUMENT IS NOT TO BE USED OR DUPLICATED IN ANY MANNER WITHOUT THE PRIOR APPROVAL OF PSEMI CORPORATION.</p>	<p>CAD REF ONLY DATA REVISION</p> <p>PCB: -- SCH: -- MEC: --</p>	<p>DESIGNER: D. KENDRICK 11-12-19 858-731-9488 dkendrick@psemi.com</p>	<p>ENGINEER: Y. KARISAN 11-12-19 ykarisan@psemi.com</p>	<p>LAYER: SILKSCREEN (PRIMARY SIDE)</p> <p>GERBER: PRT-75266-01_TS.pho</p>



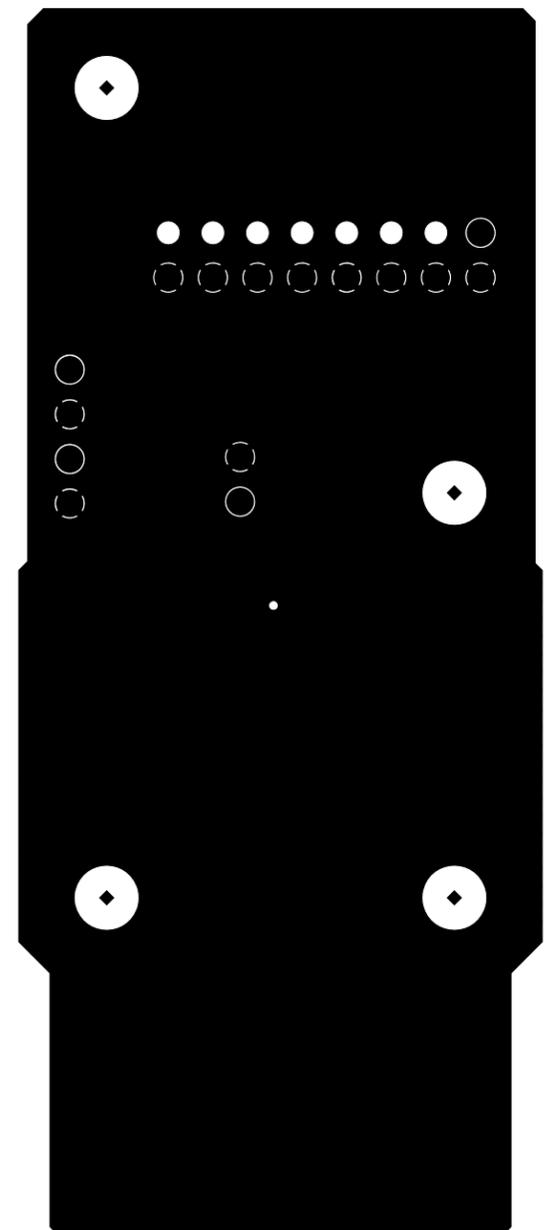
 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	<p>PCB: -- SCH: -- MEC: --</p>	<p>GERBER: PRT-75266-01_ TM .pho</p>		



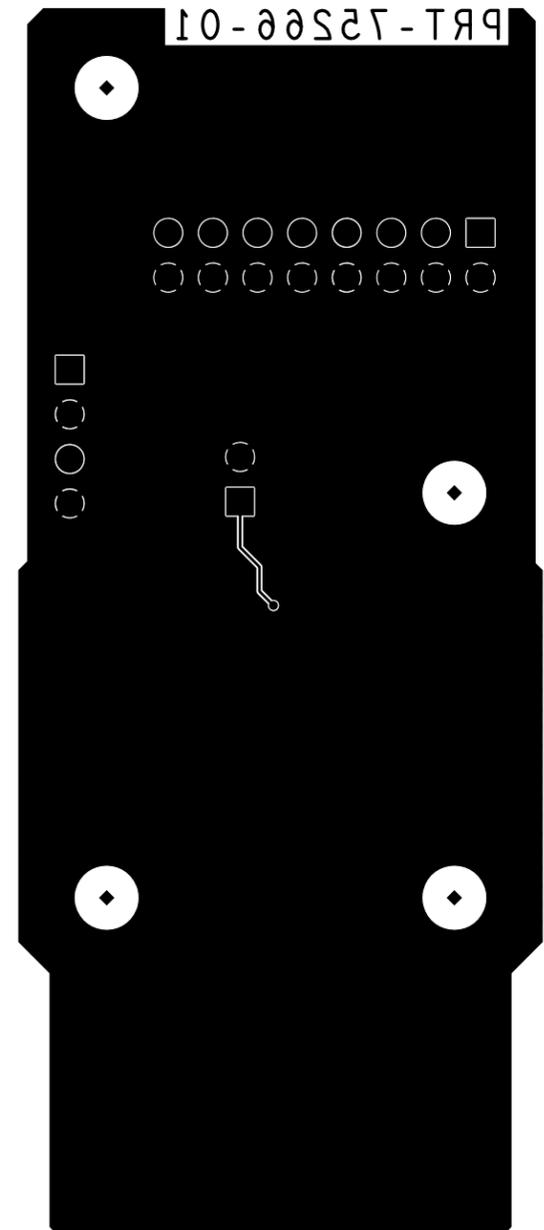
 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	<p>PCB: -- SCH: -- MEC: --</p>	<p>GERBER: PRT-75266-01_L1.pho</p>		



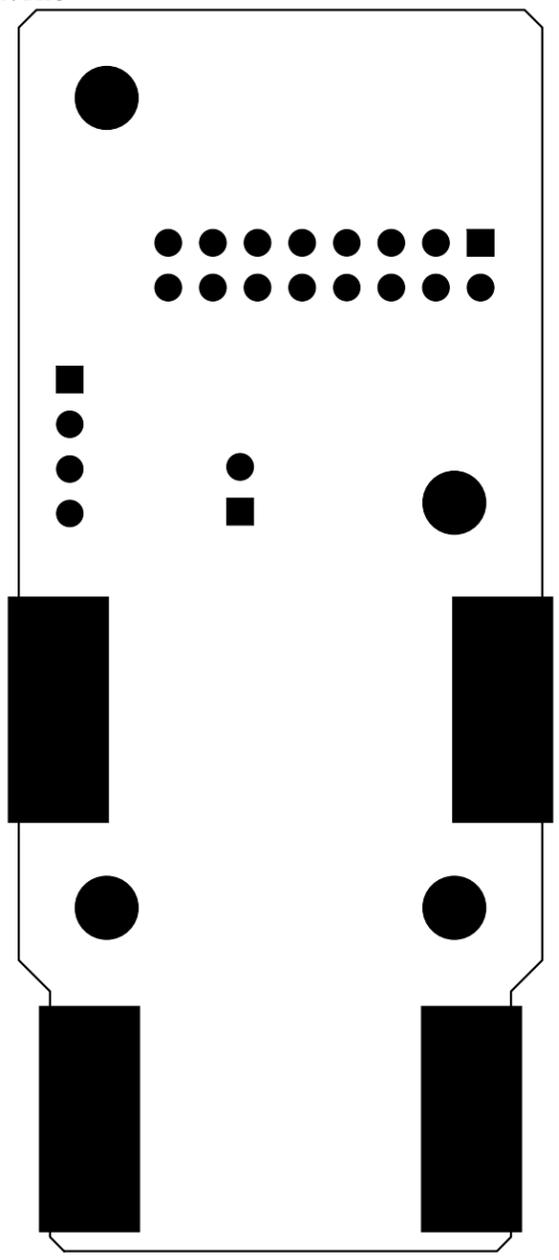
 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	<p>PCB: -- SCH: -- MEC: --</p>			<p>GERBER: PRT-75266-01_L2.pho</p>



 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
		SCHEMATIC NUMBER: DOC-95885	PART NUMBER: PRT-75266	REV: 01
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	<p>PCB: -- SCH: -- MEC: --</p>	<p>GERBER: PRT-75266-01_L3.pho</p>		



 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	<p>PCB: -- SCH: -- MEC: --</p>	<p>GERBER: PRT-75266-01_L4.pho</p>		



 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	<p>PCB: -- SCH: -- MEC: --</p>	<p>GERBER: PRT-75266-01_BM.pho</p>		

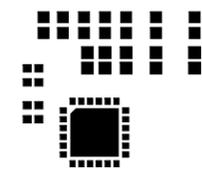
PE43614
SCOOBY EVK
© 2019 MADE IN USA
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A Murata Company

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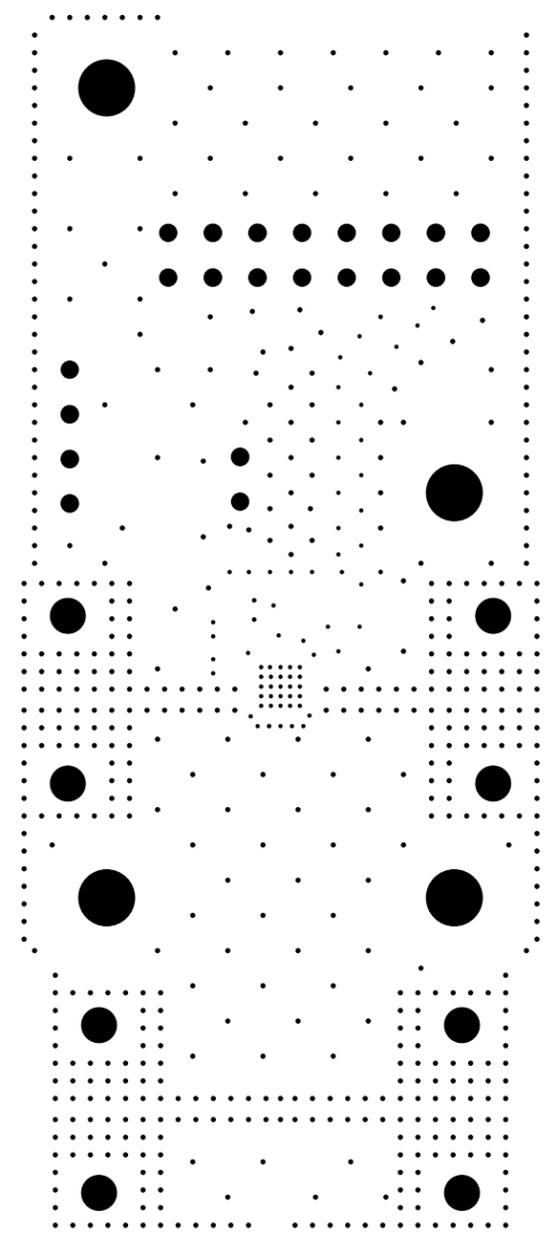
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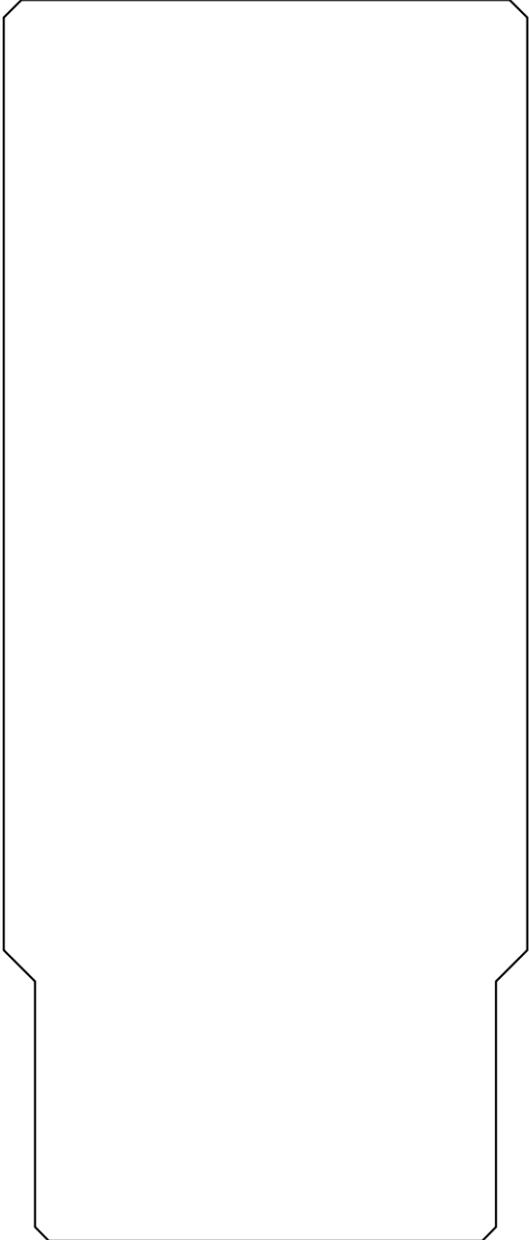


 A Murata Company 9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499	BOARD NUMBER: PE43614 SCOOBY EVK		
	SCHEMATIC NUMBER: DOC-95885	PART NUMBER: PRT-75266	REV: 01
THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO PSEMI A MURARTA COMPANY THE INFORMATION IN THIS DOCUMENT IS NOT TO BE USED OR DUPLICATED IN ANY MANNER WITHOUT THE PRIOR APPROVAL OF PSEMI CORPORATION.	CAD REF ONLY DATA REVISION	DESIGNER: D. KENDRICK 11-12-19 858-731-9488 dkendrick@psemi.com	ENGINEER: Y. KARISAN 11-12-19 ykarisan@psemi.com
	PCB: -- SCH: -- MEC: --	LAYER: SILKSCREEN BOTTOM	
		GERBER: PRT-75266-01_BS.pho	

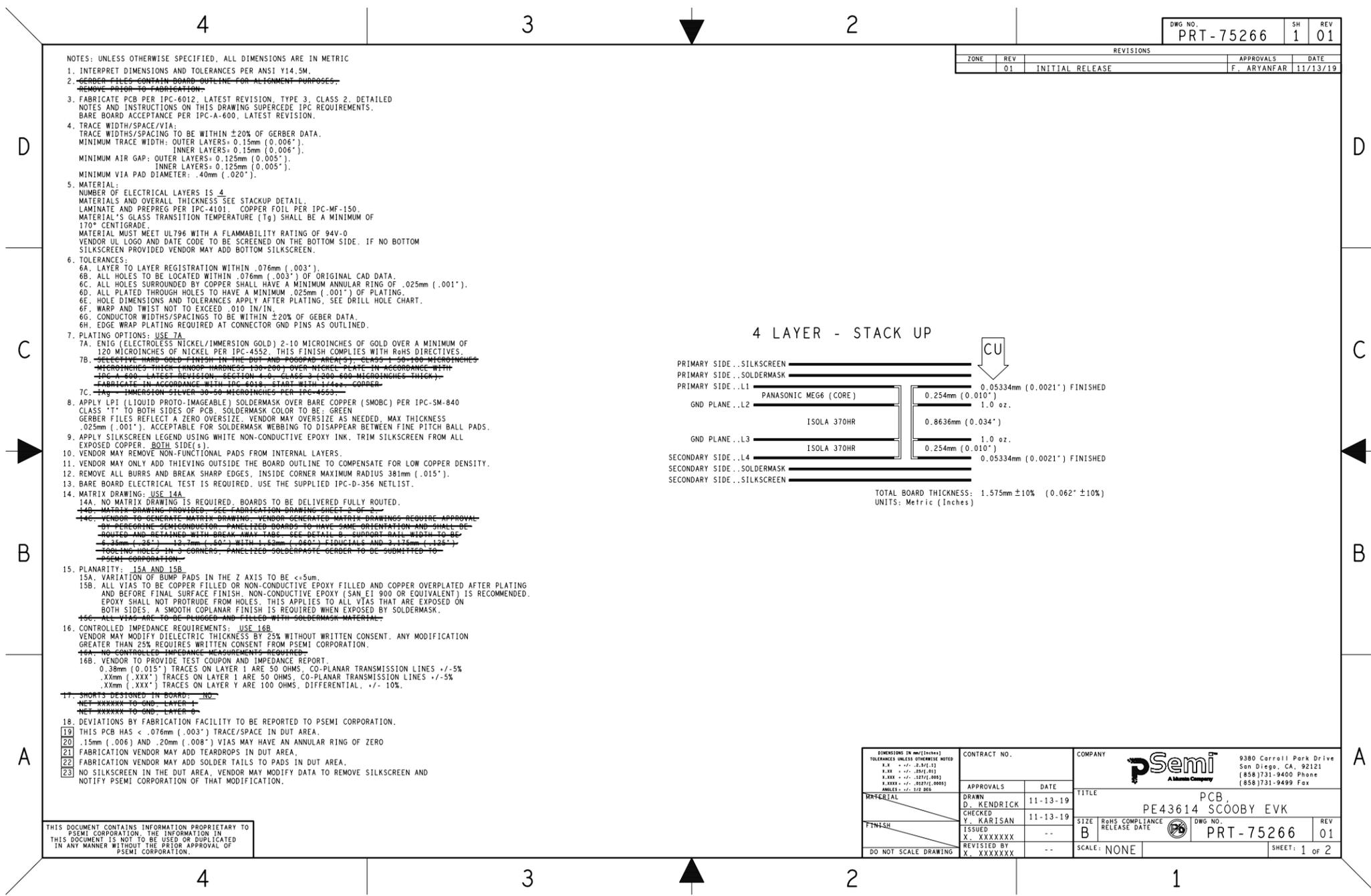


 <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	PCB: -- SCH: -- MEC: --	GERBER: PRT-75266-01_TP.pho		





 <p>PsemiTM A Murata Company</p> <p>9380 Carroll Park Drive, San Diego, CA 95032 Phone: (858)731-9400 - Fax (858)731-9499</p>		BOARD NUMBER: PE43614 SCOOPY EVK		
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	<p>PCB: -- SCH: -- MEC: --</p>			<p>GERBER: PRT-75266-01_BD.pho</p>



- NOTES: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN METRIC
- INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M.
 - ~~GERBER FILES CONTAIN BOARD OUTLINE FOR ALIGNMENT PURPOSES. REMOVE THIS FROM FABRICATION.~~
 - FABRICATE PCB PER IPC-6012, LATEST REVISION, TYPE 3, CLASS 2, DETAILED NOTES AND INSTRUCTIONS ON THIS DRAWING SUPERCEDE IPC REQUIREMENTS. BARE BOARD ACCEPTANCE PER IPC-A-600, LATEST REVISION.
 - TRACE WIDTH/SPACE/VIA:
TRACE WIDTHS/SPACING TO BE WITHIN ±20% OF GERBER DATA.
MINIMUM TRACE WIDTH: OUTER LAYERS= 0.15mm (0.006"); INNER LAYERS= 0.15mm (0.006");
MINIMUM AIR GAP: OUTER LAYERS= 0.125mm (0.005"); INNER LAYERS= 0.125mm (0.005");
MINIMUM VIA PAD DIAMETER: .40mm (.020").
 - MATERIAL:
NUMBER OF ELECTRICAL LAYERS IS 4.
MATERIALS AND OVERALL THICKNESS SEE STACKUP DETAIL.
LAMINATE AND PREPREG PER IPC-4101. COPPER FOIL PER IPC-MF-150.
MATERIAL'S GLSS TRANSITION TEMPERATURE (Tg) SHALL BE A MINIMUM OF 170° CENTIGRADE.
MATERIAL MUST MEET UL796 WITH A FLAMMABILITY RATING OF 94V-0.
VENDOR UL LOGO AND DATE CODE TO BE SCREENED ON THE BOTTOM SIDE. IF NO BOTTOM SILKSCREEN PROVIDED VENDOR MAY ADD BOTTOM SILKSCREEN.
 - TOLERANCES:
6A. LAYER TO LAYER REGISTRATION WITHIN .076mm (.003").
6B. ALL HOLES TO BE LOCATED WITHIN .076mm (.003") OF ORIGINAL CAD DATA.
6C. ALL HOLES SURROUNDED BY COPPER SHALL HAVE A MINIMUM ANNULAR RING OF .025mm (.001").
6D. ALL PLATED THROUGH HOLES TO HAVE A MINIMUM .025mm (.001") OF PLATING.
6E. HOLE DIMENSIONS AND TOLERANCES APPLY AFTER PLATING, SEE DRILL HOLE CHART.
6F. WARP AND TWIST NOT TO EXCEED .010 IN/IN.
6G. CONDUCTOR WIDTHS/SPACINGS TO BE WITHIN ±20% OF GERBER DATA.
6H. EDGE WRAP PLATING REQUIRED AT CONNECTOR GND PINS AS OUTLINED.
 - PLATING OPTIONS: USE 7A.
7A. ENIG (ELECTROLESS NICKEL/IMMERSION GOLD) 2-10 MICROINCHES OF GOLD OVER A MINIMUM OF 120 MICROINCHES OF NICKEL PER IPC-4552. THIS FINISH COMPLIES WITH RoHS DIRECTIVES.
7B. ~~SELECTIVE HARD GOLD FINISH IN THE DUT AND POGPAD AREAS). CLASS 1 50-100 MICROINCHES THICK (MINOR HARDNESS 150-200) OVER NICKEL PLATE IN ACCORDANCE WITH IPC-A-600, LATEST REVISION. SECTION 4.0. CLASS 2 200-500 MICROINCHES THICK. FABRICATE IN ACCORDANCE WITH IPC 6018. START WITH 1/4oz COPPER.~~
7C. ~~1oz IMMERSION SILVER 30-50 MICROINCHES PER IPC-4553.~~
 - APPLY LPI (LIQUID PHOTO-IMAGEABLE) SOLDERMASK OVER BARE COPPER (SMOBC) PER IPC-SM-840 CLASS "T" TO BOTH SIDES OF PCB. SOLDERMASK COLOR TO BE: GREEN.
GERBER FILES REFLECT A ZERO OVERSIZE. VENDOR MAY OVERSIZE AS NEEDED. MAX THICKNESS .025mm (.001"). ACCEPTABLE FOR SOLDERMASK WEBBING TO DISAPPEAR BETWEEN FINE PITCH BALL PADS.
 - APPLY SILKSCREEN LEGEND USING WHITE NON-CONDUCTIVE EPOXY INK. TRIM SILKSCREEN FROM ALL EXPOSED COPPER, BOTH SIDE(S).
 - VENDOR MAY REMOVE NON-FUNCTIONAL PADS FROM INTERNAL LAYERS.
 - VENDOR MAY ONLY ADD THEIVING OUTSIDE THE BOARD OUTLINE TO COMPENSATE FOR LOW COPPER DENSITY.
 - REMOVE ALL BURRS AND BREAK SHARP EDGES. INSIDE CORNER MAXIMUM RADIUS 381mm (.015").
 - BARE BOARD ELECTRICAL TEST IS REQUIRED. USE THE SUPPLIED IPC-D-356 NETLIST.
 - MATRIX DRAWING: USE 14A.
14A. NO MATRIX DRAWING IS REQUIRED. BOARDS TO BE DELIVERED FULLY ROUTED.
~~14B. MATRIX DRAWING PROVIDED. SEE FABRICATION DRAWING SHEET 2 OF 2.~~
~~14C. VENDOR TO GENERATE MATRIX DRAWING. VENDOR GENERATED MATRIX DRAWINGS REQUIRE APPROVAL BY PSEMI CORPORATION. PANELIZED BOARDS TO HAVE SAME ORIENTATION AND SHALL BE ROUTED AND RETAINED WITH BREAK WAYS. SEE DETAIL 8. SUPPORT RAIL WIDTH TO BE 6.35mm (.25") 12.7mm (.50") WITH 1.52mm (.060") FIDUCIALS AND 3.175mm (.125") PUNCHING HOLES IN 3 CORNERS. PANELIZED SOLDERPASTE GERBER TO BE SUBMITTED TO PSEMI CORPORATION.~~
 - PLANARITY: 15A AND 15B.
15A. VARIATION OF BUMP PADS IN THE Z AXIS TO BE <=5um.
15B. ALL VIAS TO BE COPPER FILLED OR NON-CONDUCTIVE EPOXY FILLED AND COPPER OVERPLATED AFTER PLATING AND BEFORE FINAL SURFACE FINISH. NON-CONDUCTIVE EPOXY (SAN E1 900 OR EQUIVALENT) IS RECOMMENDED. EPOXY SHALL NOT PROTRUDE FROM HOLES. THIS APPLIES TO ALL VIAS THAT ARE EXPOSED ON BOTH SIDES. A SMOOTH COPLANAR FINISH IS REQUIRED WHEN EXPOSED BY SOLDERMASK.
~~15C. ALL VIAS ARE TO BE PLUGGED AND FILLED WITH SOLDERMASK MATERIAL.~~
 - CONTROLLED IMPEDANCE REQUIREMENTS: USE 16B.
VENDOR MAY MODIFY DIELECTRIC THICKNESS BY 25% WITHOUT WRITTEN CONSENT. ANY MODIFICATION GREATER THAN 25% REQUIRES WRITTEN CONSENT FROM PSEMI CORPORATION.
~~16A. NO CONTROLLED IMPEDANCE MEASUREMENTS REQUIRED.~~
16B. VENDOR TO PROVIDE TEST COUPON AND IMPEDANCE REPORT.
0.38mm (0.015") TRACES ON LAYER 1 ARE 50 OHMS. CO-PLANAR TRANSMISSION LINES +/-5%
.Xmm (.XXX") TRACES ON LAYER 1 ARE 50 OHMS. CO-PLANAR TRANSMISSION LINES +/-5%
.Xmm (.XXX") TRACES ON LAYER Y ARE 100 OHMS. DIFFERENTIAL, +/- 10%.
 - SHORTS DESIGNED IN BOARD: ~~NO~~
~~NET XXXXXX TO GND, LAYER 1~~
~~NET XXXXXX TO GND, LAYER 0~~
 - DEVIATIONS BY FABRICATION FACILITY TO BE REPORTED TO PSEMI CORPORATION.
19 THIS PCB HAS < .076mm (.003") TRACE/SPACE IN DUT AREA.
20 .15mm (.006") AND .20mm (.008") VIAS MAY HAVE AN ANNULAR RING OF ZERO
21 FABRICATION VENDOR MAY ADD TEARDROPS IN DUT AREA.
22 FABRICATION VENDOR MAY ADD SOLDER TAILS TO PADS IN DUT AREA.
23 NO SILKSCREEN IN THE DUT AREA. VENDOR MAY MODIFY DATA TO REMOVE SILKSCREEN AND NOTIFY PSEMI CORPORATION OF THAT MODIFICATION.

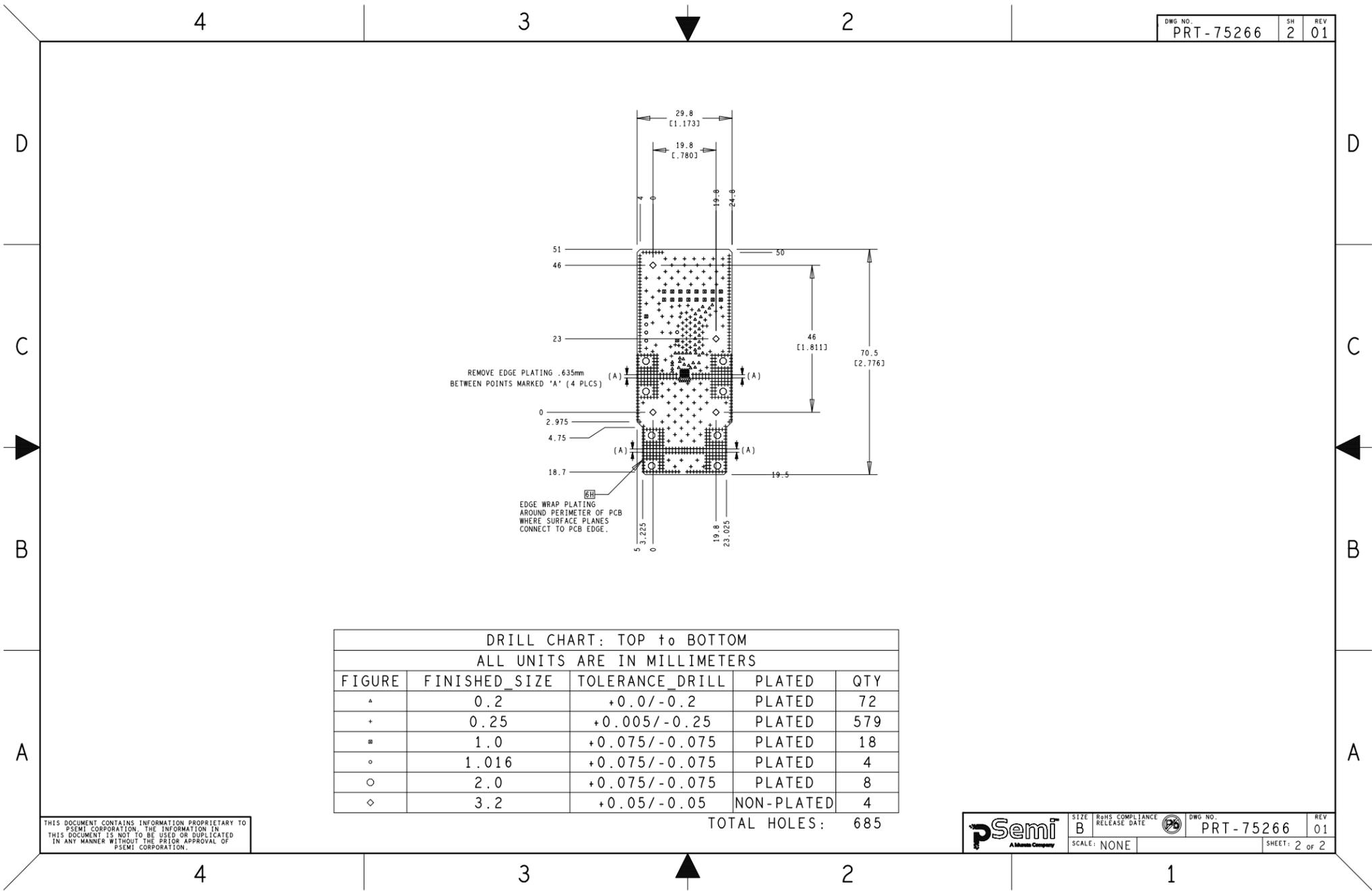
4 LAYER - STACK UP

PRIMARY SIDE..SILKSCREEN		
PRIMARY SIDE..SOLDERMASK		
PRIMARY SIDE..L1	PANASONIC MEG6 (CORE)	0.254mm (0.010") 0.05334mm (0.0021") FINISHED
GND PLANE..L2	ISOLA 370HR	0.8636mm (0.034") 1.0 oz.
GND PLANE..L3	ISOLA 370HR	0.254mm (0.010") 1.0 oz.
SECONDARY SIDE..L4	ISOLA 370HR	0.254mm (0.010") 0.05334mm (0.0021") FINISHED
SECONDARY SIDE..SOLDERMASK		
SECONDARY SIDE..SILKSCREEN		

TOTAL BOARD THICKNESS: 1.575mm ±10% (0.062" ±10%)
UNITS: Metric (Inches)

DIMENSIONS IN mm (Inches) TOLERANCES UNLESS OTHERWISE NOTED X.X - +/- .03(.012) X.XX - +/- .01(.004) X.XXX - +/- .005(.002) X.XXXX - +/- .002(.0008) ANGLES - +/- 1/2 DEG	CONTRACT NO.	COMPANY	9380 Carrol Park Drive San Diego, CA, 92121 (858)731-9400 Phone (858)731-9499 Fax	
	APPROVALS DRAWN: D. KENDRICK CHECKED: Y. KARISAN ISSUED: X. XXXXXXX REVISED BY: X. XXXXXXX	DATE 11-13-19 11-13-19 -- --	TITLE PCB, PE43614 SCOoby EVK	SIZE B
DO NOT SCALE DRAWING		SCALE: NONE	SHEET: 1 of 2	

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DRILL CHART: TOP to BOTTOM
ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED_SIZE	TOLERANCE_DRILL	PLATED	QTY
*	0.2	+0.0/-0.2	PLATED	72
+	0.25	+0.005/-0.25	PLATED	579
=	1.0	+0.075/-0.075	PLATED	18
o	1.016	+0.075/-0.075	PLATED	4
o	2.0	+0.075/-0.075	PLATED	8
◇	3.2	+0.05/-0.05	NON-PLATED	4

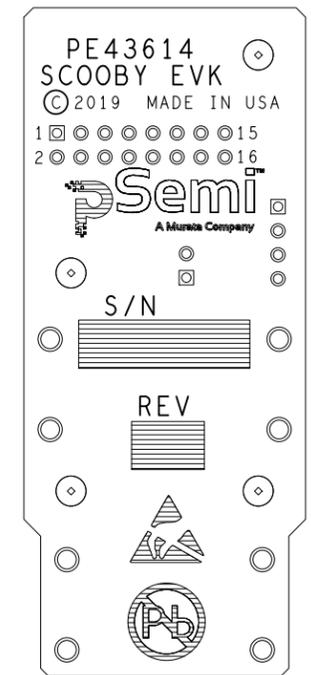
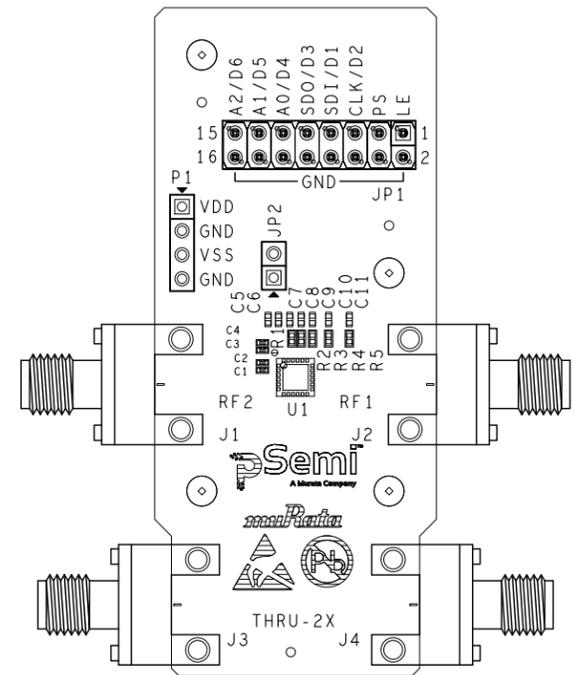
TOTAL HOLES: 685

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DWG NO. PRT-75265 SH 1 REV 01

REVISIONS		APPROVALS	DATE
ZONE	REV		
	01	F. ARYANFAR	11/12/19

- NOTES: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN METRIC
1. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M.
 2. WORKMANSHIP PER IPC-A-610D, CLASS 2.
 3. COMPONENT LEAD PROTRUSION AND COMPONENT TO PCB GAP PER IPC-A-610D.
 4. NO PARTS CONTAINING LEAD MAY BE INSTALLED ON THE ASSEMBLY WITHOUT THE PRIOR WRITTEN CONSENT OF PSEMI CORPORATION.
 5. ALL SOLDERING AND CLEANING PROCESSES FOR THIS ASSEMBLY MUST BE LEAD-FREE.
 6. MANUAL ASSEMBLY AND REWORK MUST USE LEAD-FREE SOLDER AND FOLLOW RoHS PROCEDURES.
 7. THIS ASSEMBLY IS RoHS COMPLIANT.
 8. MANUFACTURER TO MARK ASSEMBLY WITH CURRENT REVISION LETTER.
 9. FINISHED ASSEMBLY MUST BE FREE OF ANY RESIDUES.
 10. PARTS USED ON THIS ASSEMBLY ARE TO HAVE DATE CODES WITHIN 24 MONTHS OF PURCHASE ORDER ISSUANCE DATE.
 11. MANUFACTURE TO APPLY BARCODE LABEL IN SPACE PROVIDED.



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<small>DIMENSIONS IN mm/[inches]</small> <small>TOLERANCES UNLESS OTHERWISE NOTED</small> X.XX - +/- .25(1.0) X.XXX - +/- .127(.01) X.XXXX - +/- .0507(.002) ANGLES - +/- .125 DEG		CONTRACT NO. APPROVALS DATE	COMPANY PSEMI <small>A Murata Company</small> 9380 Corrolli Park Drive San Diego, CA, 92121 (858)731-9400 Phone (858)731-9499 Fax
DRAWN D. KENDRICK CHECKED Y. KARISAN ISSUED X. XXXXXXX REVISED BY X. XXXXXXX	11/12/19 11/12/19 11/12/19	TITLE PCA PE43614 SCOOPY EVK SIZE B RoHS COMPLIANCE RELEASE DATE	DWG NO. PRT-75265 REV 01 SCALE: NONE SHEET: 1 of 1