

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. BOARD FABRICATION METHODS MUST COMPLY WITH:  
FABRICATE IN ACCORDANCE WITH IPC-6018B, per IPC-6011, CLASS 2.

2. ARTWORK FORMAT:  
GERBER 274X\*  
\*GERBER DATA SUPPLIED WITH DESIRED FINAL TRACE WIDTHS. PROCESS  
COMPENSATION TRACE WIDTH ADJUSTMENTS TO BE DONE BY PCB FABRICATOR.

3. MATERIAL:  
NUMBER OF LAYERS: 4 LAYERS

METAL 1: 0.5oz.  
CORE 1: ROGERS 4003C, 0.008in. THICK  
METAL 2: 0.5oz.  
PREPREG: 370HR, .006 THICK  
METAL 3: 0.5oz.  
CORE 1: 370HR, .006 THICK  
METAL 4: 0.5oz.

SOLDERMASK TOP: LPI (LIQUID PHOTO-IMAGEABLE),  
OR LD(LASED DIRECT IMAGEABLE), GREEN  
MAX FINISH THICKNESS OF SOLDERMASK TO BE 0.001in.  
SILKSCREEN TOP: HIGH TEMPERATURE, NON-CONDUCTIVE, WHITE EPOXY BASED INK.

4. FINISH PLATING:

METAL 1 AND METAL 4:  
ENIG (ELECTROLESS NICKEL/IMMERSION GOLD):

5. FINISHED BOARD THICKNESS: 0.025 ±0.003in.

6. COPPER IS PULLED BACK 0.002in. FROM EDGE OF BOARD ON METAL 1 AND METAL 4.  
AND PULLED BACK 0.003-0.005in. FROM EDGE OF BOARD ON INTERNAL LAYERS.  
THESE VALUES ARE CRITICAL AND MUST BE INSPECTED.

7. TOLERANCE: PC BOARD OUTLINE: ±0.002in.

8. BURRS SHALL NOT EXCEED 0.002in.

9. VIA PLATING/FILLING:

A. ALL VIAS UNDER THE DUT ARE TO BE:  
COPPER-FILLED, OVER-PLATED AND PLANARIZED.  
FINISHED COPPER THICKNESS TO BE 0.0014 ±0.0004in.  
B. ALL OTHER PLATED THRU HOLES TO BE PLATED TO 0.0007in. MIN. THICKNESS.

10. METAL 1(TOP) AND METAL4(BOTTOM) SHALL BE PLANARIZED AFTER PLATING HOLES SHUT.  
MAX ALLOWABLE NEGATIVE FEATURE 0.0008in. MAX ALLOWABLE POSITIVE FEATURE 0.0003in.

11. CONDUCTOR WIDTHS AND SPACING TO BE WITHIN 0.001in. OF CAD DATABASE.

12. SOLDERMASK IN PLATED-THRU HOLES IS ACCEPTABLE AS LONG AS IT DOES NOT EXIST  
ON BACKSIDE OF BOARD.

13. ALL HOLES TO BE LOCATED WITHIN ±0.003 OF CAD DATABASE.

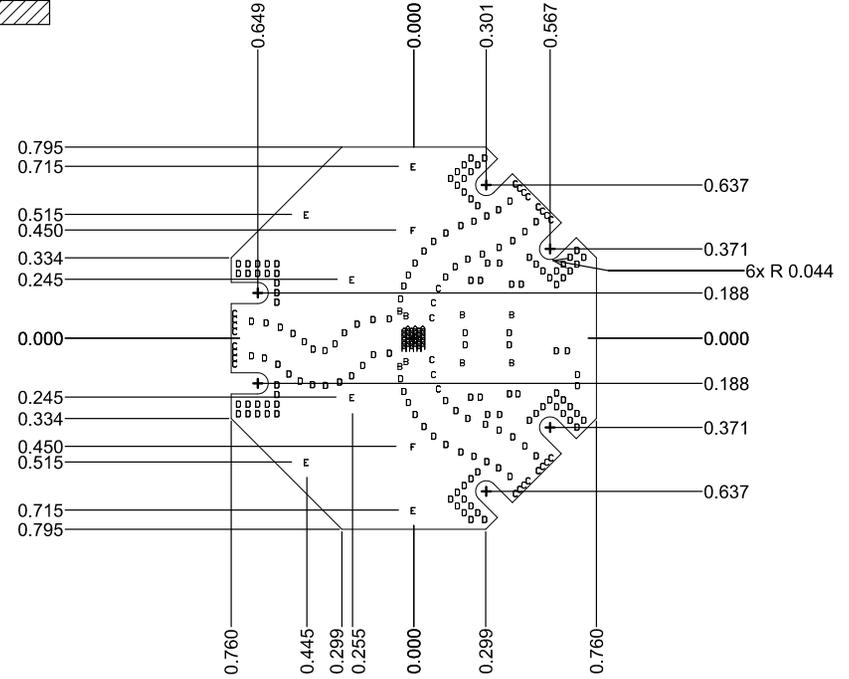
14. NO VENDOR MARKING OR SERIALIZATION ALLOWED.

15. BOARDS SHALL BE SINGULATED AND BAGGED

16. NO ELECTRICAL TEST

Layer	Name	Material	Thickness	Constant	Board Layer Slack
1	SILKSCREEN_TOP				
2	SOLDERMASK_TOP	Solder Resist	0.10mil	4.3	
3	METAL1_TOP	Copper	0.70mil		
4	DIELECTRIC 1	ROGERS 4003C	8.00mil	3.38	
5	METAL2_MID1	Copper	0.70mil		
6	DIELECTRIC 2	370HR	6.00mil	4.04	
7	METAL3_MID2	Copper	0.70mil		
8	DIELECTRIC 3	370HR	6.00mil	4.04	
9	METAL4_BOT	Copper	0.70mil		

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL
A	New Release	09/27/16	OMARRUFO



Symbol	Count	Hole Size	Hole Finish/Drill	Plated	Hole Type	Drill Layer Pair	Filled
A	30	8.00mil (0.203mm)	Drill	PTH	Round	METAL1_TOP - METAL4_BOT	YES
B	8	10.00mil (0.254mm)	Drill	PTH	Round	METAL1_TOP - METAL3_MID2	
C	30	15.00mil (0.381mm)	Drill	PTH	Round	METAL1_TOP - METAL4_BOT	
D	159	20.00mil (0.508mm)	Drill	PTH	Round	METAL1_TOP - METAL4_BOT	
E	6	100.00mil (2.540mm)	Drill	PTH	Round	METAL1_TOP - METAL4_BOT	
F	2	120.00mil (3.048mm)	Drill	PTH	Round	METAL1_TOP - METAL4_BOT	

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES (mm)		PRODUCT: QPC1005		 all around you 500 W Renner RD, Richardson, TX 75080 Phone: 972.994.6200 www.qorvo.com	
TOLERANCES .XX = ±.01 .XXX = ±.005 .XXXX = ±.0010 ANGLES = ±0.5°		APPROVAL AND RELEASE RECORDS MAINTAINED IN PDE		DATE	
INTERPRET DRAWING PER ANSISAME Y14.5-2009		DESIGNER: OMARRUFO		06/23/16	
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING		ENDOR: TNGUYEN		06/23/16	
PDE CONTROLLED				SIZE DWG. NO.	
CAGE CODE 1CVM1				B QPC1005-4000	
				REV. A	
				SCALE: NTS SHEET 1 OF 1	