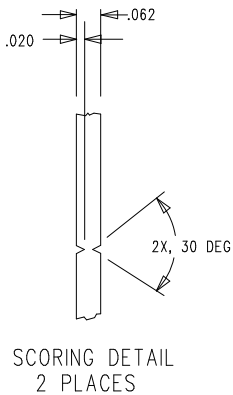
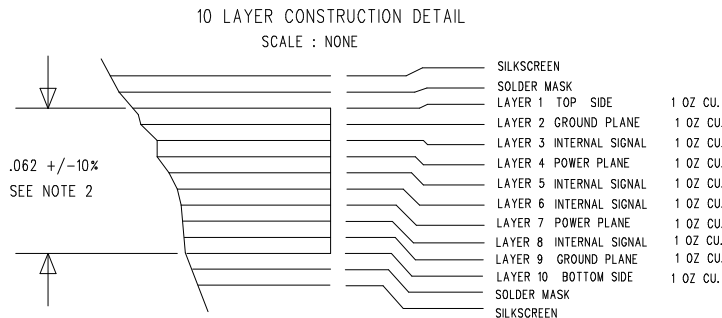
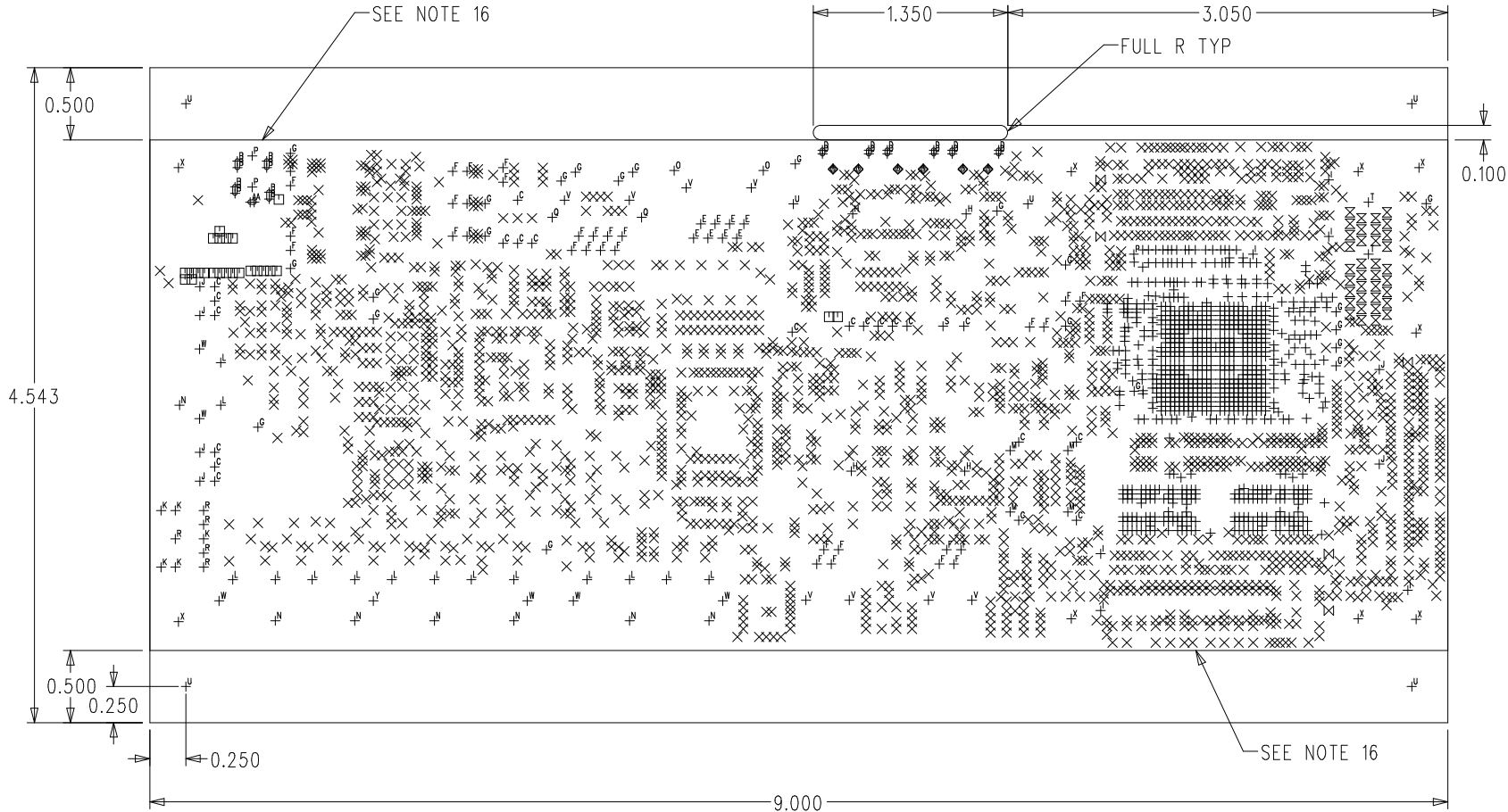



SIZE	QTY	SYM	PLATED	TOL
0.006	886	+	YES	+/-0.003
0.012	2370	+	YES	+/-0.003
0.02	24	+	YES	+/-0.003
0.026 x 0.033	6	+	YES	+/-0.003
0.028	36	+	YES	+/-0.003
0.028	5	+	NO	+/-0.003
0.032 x 0.06	1	+	YES	+/-0.003
0.032 x 0.078	4	+	YES	+/-0.003
0.033	21	+	YES	+/-0.003
0.033 x 0.059	6	+	YES	+/-0.003
0.035	8	+	YES	+/-0.003
0.038	32	+	YES	+/-0.003
0.04	22	+	YES	+/-0.003
0.04	4	+	NO	+/-0.003
0.044	6	+	NO	+/-0.003
0.045	6	+	YES	+/-0.003
0.047	5	+	NO	+/-0.003
0.051	14	+	YES	+/-0.003
0.057	4	+	NO	+/-0.003
0.059	7	+	YES	+/-0.003
0.063	2	+	YES	+/-0.003
0.063	3	+	NO	+/-0.003
0.067	2	+	YES	+/-0.003
0.071	5	+	YES	+/-0.003
0.089	1	+	NO	+/-0.003
0.093	2	+	NO	+/-0.003
0.125	6	+	NO	+/-0.005
0.128	8	+	NO	+/-0.005
0.14	6	+	NO	+/-0.005
0.144	9	+	NO	+/-0.005
0.187	1	+	NO	+/-0.005



- | REVISIONS | | | | |
|-----------|-------------------------|--------|----------|----------|
| REV | DESCRIPTION OF CHANGE | DRFTR | DATE | APPROVED |
| 0.1 | NEW RELEASE | C.C.D. | 07/07/14 | |
| 0.2 | UPDATED PER ECO2014-069 | C.C.D. | 10/24/14 | |
| 1.0 | UPDATED PER ECO2015-000 | C.C.D. | 1/16/15 | |
| 1.1 | UPDATED PER ECO2015-011 | C.C.D. | 4/10/15 | |
| 1.2 | UPDATED PER ECO2016-013 | C.C.D. | 3/24/16 | |
- UNLESS OTHERWISE SPECIFIED
- BOARD TO BE FABRICATED PER IPC-6012B, CLASS 2.
 - MATERIAL: FR-370HR OR EQUIVALENT. OUTER LAYERS 1 OZ/SQFT CU INNER LAYERS 1 OZ/SQFT CU FINISHED .062 +/-10%. VENDOR MAY ADJUST THICKNESS TO FULFILL NOTE 9.
 - PLATING: ADDITIONAL CU PLATING 1 OZ/SQFT ALL HOLES PLATED THROUGH, EXCEPT AS NOTED IN HOLE LEGEND. MINIMUM PTH BARREL THICKNESS = 0.0008" MINIMUM AVERAGE PER IPC-6012B WITH AMENDMENT 1, CLASS 2 REQUIREMENTS. WITH NO SINGLE MEASUREMENT LESS THAN 0.00071 IN THE PLATED HOLES.
 - FINISH: SURFACES TO BE COATED BY ENIG OF 3 TO 5 MICROINCHES OVER A MINIMUM OF 150-200 MICROINCHES OF LOW STRESS NICKEL.
 - SOLDERMASK: SOLDER MASK TO BE TRANSPARENT GREEN LPI BOTH SIDES PER GERBER FILES. VENDOR MAY ADJUST SOLDERMASK PAD SIZE AS NEEDED.
 - SILKSCREEN: WHITE EPOXY INK, APPLY TO BOTH SIDES PER GERBER FILES.
 - ARTWORK: MINIMUM FEATURE SIZE = 0.005 MINIMUM AIR GAP = 0.004
 - ALL DIMENSIONS ARE IN INCHES.
 - CONTROLLED IMPEDANCE (+/-10%): ALL .005" TRACES TO BE 50 OHM SINGLE ENDED. ALL .0056" TRACES TO BE 50 OHM SINGLE ENDED. ALL .0045" TRACES TO BE 100 OHM DIFFERENTIAL PAIRS.
 - NON-FUNCTIONAL COPPER THIEVING IS ALLOWED ON OPEN AREAS.
 - VIAS SHOULD BE COVERED ACCORDING TO ONE OF THE FOLLOWING METHODS. METHOD 1 IS PREFERRED. METHOD 1: VIAS MUST BE FILLED WITH SOLDERMASK MATERIAL AFTER ELECTROLESS NICKEL/IMMERSION GOLD AND BEFORE PRIMARY LPI MASK. AFTER THE FILL IS CURED, THE PRIMARY MASK IS THEN APPLIED WITH NO VIA APERTURES BOTH SIDES. METHOD 2: AFTER APPLICATION OF FULL BODY ELECTROLESS NICKEL/IMMERSION GOLD, APPLY PRIMARY MASK WITH REDUCED VIA APERTURES THAT ARE 6 MILS LARGER THAN DRILLED HOLE DIAMETER BOTH SIDES. THEN APPLY SOLDER MASK PLUG ON COMPONENT SIDE.
 - VIA HOLES (.006 & .012) REQUIRE TANGENCY ONLY, INSTEAD OF ANNULAR RING.
 - TEARDROP PADS ARE ACCEPTABLE WHERE NEEDED.
 - REMOVAL OF NON-FUNCTIONAL PADS ON LAYERS 3, 5, 6, AND 8 IS ACCEPTABLE.
 - USE IPC-D-356A NETLIST AS SUPPLIED FOR CHECKING.
 - V SCORE 1 LINE ON BOTH SIDES OF THE BOARD. SEE DETAIL.
 - BUILD AS 1-UP PCB.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : .xx +/- .010 .xxx +/- .005	CONTRACT NO.		 2 Elizabeth Drive Chelmsford, MA 01824		
	APPROVALS	DATE			
MATERIAL	DRAWN	C.C.D.	3/24/16	FABRICATION DRAWING ADSP-SC589 EZ-BOARD	
SEE NOTES	CHECKED				
FINISH	ENGINEERING			SIZE B	DWG. NO. A0447-2013
SEE NOTES	QUALITY				
DO NOT SCALE THIS DRAWING	MANUFACTURING			SCALE 1 : 1	SHEET 1 OF 1