



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
.	10.0	+3.0/-3.0	PLATED	763
•	38.0	+3.0/-3.0	PLATED	18
•	40.0	+3.0/-3.0	PLATED	72
⊙	200.0	+3.0/-3.0	PLATED	4
•	212.5984	+3.0/-3.0	PLATED	2
•	70.0	+2.0/-2.0	NON-PLATED	2
⊙	187.0	+2.0/-2.0	NON-PLATED	4

- NET GND\_POWER AND GND\_SIGNAL ARE INTENTIONALLY SHORTED AT PIN U1.B7 AND U1.C7 NETLIST ERROR TO BE IGNORED.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- ADD A SERIAL NUMBER ON EACH BOARD [START FROM 001 TO N].
- BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST
- MINIMUM COPPER WIDTH TO BE .004".
- FINISHED SIGNAL TRACE WIDTHS AT THE FOIL-TO-SUBSTRATE INTERFACE SHALL HAVE A TOLERANCE OF +/- 10%
- ROBBER PATTERNS, PERMITTED WHEN REQUIRED, SHALL MAINTAIN .100" [2.5MM] SPACING FROM CONDUCTIVE FEATURES AND LAYER WINDOWS WHEN PRESENT.
- SILKSCREEN USING PERMANENT, NONCONDUCTIVE, WHITE, EPOXY INK. SILKSCREEN SHALL NOT EXTEND ON TO FUNCTIONAL LANDS OR PADS.
- ADJUST SOLDERMASK EXPANSION PER YOUR MANUFACTURING PROCESS. DO NOT ALLOW SOLDERMASK TO ENCROACH ON PADS OR EXPOSE ADJACENT ETCH.
- BOW AND TWIST SHALL BE IN ACCORDANCE WITH IPC-6012 CLASS 2. 0.075 PER INCH IS TYPICAL.
- LAYER-TO-LAYER REGISTRATION +/- .003" [.08MM] OF DIAMETER OF TRUE POSITION.
- ALL HOLES SHALL BE LOCATED WITHIN .003" [.08MM] DIAMETER OF TRUE POSITION.
- PREPREG THICKNESSES OF .004" [.1MM] OR GREATER REQUIRE A MINIMUM OF 2 PLYS.
- PWB SHALL BE FABRICATED TO IPC-6012 CLASS 2 AND WORKMANSHIP SHALL CONFIRM IPC-A-600 CLASS2 CURRENT REVISIONS
- BOARD MATERIAL SHALL BE "180 Tg/340Td, ISOLA 370HR" OR EQUIVALENT, ROHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE UNLESS OTHERWISE NOTED
- BASE LAMINATE AND PREPREG SHALL BE GLASS FABRIC REINFORCED EPOXY RESIN PER IPC-4101B OR GREATER TYPE L AND P RESPECTIVELY, REFER TO CROSS SECTION FOR COPPER FOIL HEIGHTS. COPPER FOIL TYPE H PER IPC-MF-150. COPPER PLATING SHALL BE .001" [.025MM] THICK MINIMUM IN HOLES. OVERALL THICKNESS APPLIES TO FINISHED BOARD, EXCLUDING SOLDERMASKS.
- FINISHED BOARD, INCLUDING ANY SOLDERMASK, SHALL HAVE A UL FLAMMABILITY RATING OF 94V-0. DATE CODE, MANUFACTURER'S UL SYMBOL, AND UL FLAMMABILITY RATING SHALL BE PERMANENTLY MARKED OR ETCHED.
- FABRICATE PER ANSI / IPC-6011/6012 CLASS 2 (GENERAL INDUSTRY). PROCESSED PER THE FOLLOWING METHOD:
  - SMOBC PER IPC-SM-840C, CLASS H (LPI) COLOR BLUE.
  - FINAL FINISH: ENIG PER IPC-4552 SHALL BE 1.58-3.94 MICRO INCHES OF GOLD OVER 118 to 236 MICRO INCHES OF NICKEL

NOTES: UNLESS OTHERWISE SPECIFIED

CROSS SECTION		Cu Mil	FILE	TYPE
<div>3</div> <div>62MIL +/-10%</div> <div>5.78</div> <div>5.78</div> <div>5.78</div> <div>5.78</div> <div>5.78</div>	PRIMARY SIDE SILKSCREEN		ST.ART	GERBER RS274X
	PRIMARY SIDE SOLDERMASK		TM.ART	GERBER RS274X
	PRIMARY SIDE SIGNAL	3.25	TOP.ART	GERBER RS274X
	SIGNAL_1	1.4	SIGNAL_1.ART	GERBER RS274X
	SIGNAL GROUND	1.4	SIGNAL_GND.ART	GERBER RS274X
	POWER GROUND	1.4	POWER_GND.ART	GERBER RS274X
	LAYER 2 (GROUND)	1.4	SIGNAL_2.ART	GERBER RS274X
	SECONDARY SIDE SIGNAL	3.25	BOTTOM.ART	GERBER RS274X
	SECONDARY SIDE SOLDERMASK		BM.ART	GERBER RS274X
	SECONDARY SIDE SILKSCREEN		SB.ART	GERBER RS274X
NC DRILL FILE			NCDRILL.DRL	NCDRILL
MECHANICAL DRAWING			FAB.ART	GERBER RS274X
MANUFACTRING INFORMATION			README.TXT	TEXT

DIMENSIONS IN INCHES  
TOLERANCES UNLESS  
OTHERWISE SPECIFIED  
2 PLC DEC +/- .02  
3 PLC DEC +/- .005  
4 PLC DEC +/- .0010  
SURFACE TEXTURE  
REWORK EDGES .0004  
SHARP EDGES .0150 MAX

MATERIAL	4	FINISH	1
DESIGNER	PBHAT	CHECKED	FC
CUSTOMER			
NAME	MXL7225-EVK		
SCALE	1:1	C	DWG NO. 175-MXL7225-EVK-100
REV	A	SHEET	1 OF 1

Maxlinear, Inc.