

A

B

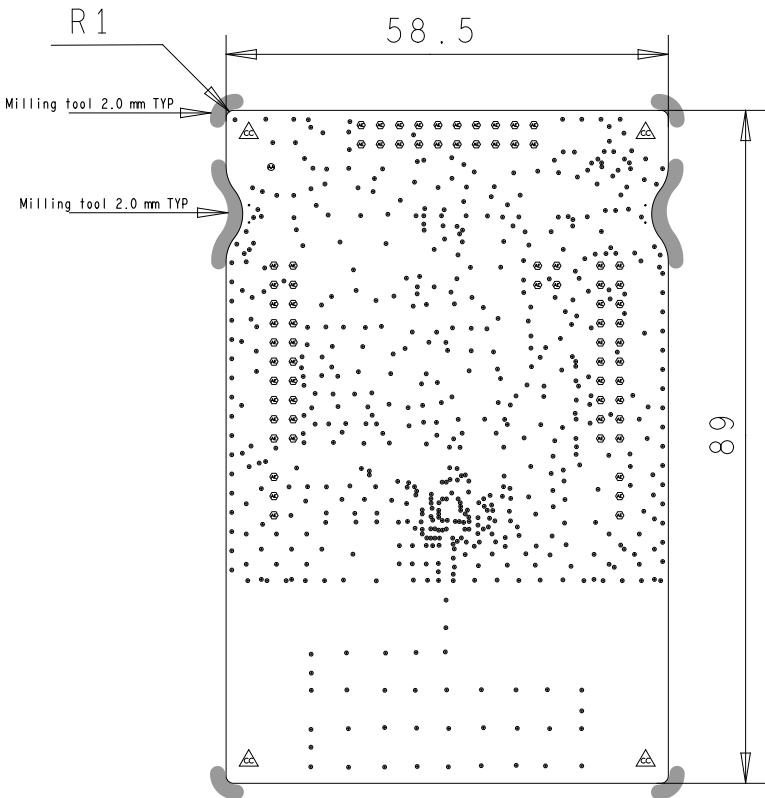
C

D

DESIGN CROSS SECTION CHART  
TOTAL THICKNESS 1.6 MM



L1: TOP CONDUCTOR - COPPER + PLATING 0.035 MM  
\* DIELECTRIC - FR-4 0.175 MM (TOP PRIORITY, AFTER PRESS)  
L2: L2 PLANE - COPPER 0.035 MM  
\* DIELECTRIC - FR-4 1.11 MM  
L3: L3 PLANE - COPPER 0.035 MM  
\* DIELECTRIC - FR-4 0.175 MM  
L4: BOTTOM CONDUCTOR - COPPER + PLATING 0.035 MM



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILLIMETERS			
FIGURE	FINISHED_SIZE	PLATED	QTY
.	0.2	PLATED	592
•	1.05	PLATED	70
•	1.1	PLATED	1
△	3.2	PLATED	4
.	0.899	NON-PLATED	4

	TEXAS INSTRUMENTS	
	DRILL	LP-EM-CC1312PSIP Rev. A
	DATE: 2023-09-01	

Texas Instruments (TI) and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. TI and/or its licensors do not warrant this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. TI and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

A

B

C

D

DESIGN INFORMATION				
MIN. TRACK WIDTH:	0.15 mm			
MIN. CLEARANCE:	0.15 mm			
MIN. VIA PAD SIZE:	0.40 mm			
MINIMUM ANNULAR RING 0.05mm (2MIL) EXTERNAL PER IPC-D-275 CLASS 2 LEVEL C REGISTRATION TOLERANCES: METAL +/-150 um, HOLES +/-80 um HOLE SIZE TOLERANCE (UNLESS OTHERWISE SPECIFIED): +/-80 um				
MATERIAL:				
<input checked="" type="checkbox"/> FR-4 <input type="checkbox"/> FR-4 High Tg <input type="checkbox"/> OTHER _____				
THICKNESS: <input checked="" type="checkbox"/> 1.6mm +/-10% <input type="checkbox"/> OTHER _____				
TOLERANCE: <input checked="" type="checkbox"/> ANSI IPC-6012 TYPE 3 CLASS 2 <input type="checkbox"/> OTHER +/- _____				
BOW & TWIST: <input checked="" type="checkbox"/> ANSI IPC-6012 TYPE 3 CLASS 2 <input type="checkbox"/> OTHER +/- _____				
DRILLING:				
REFERENCE: <input type="checkbox"/> AS SHOWN <input checked="" type="checkbox"/> NC_DRILL FILES				
PTH COPPER THICKNESS: <input checked="" type="checkbox"/> 20-30 um <input type="checkbox"/> OTHER _____				
BOARD FINISH:				
SILKSCREEN: <input checked="" type="checkbox"/> TOP <input checked="" type="checkbox"/> BOTTOM				
SILKSCREEN COLOR: <input checked="" type="checkbox"/> WHITE <input type="checkbox"/> OTHER _____				
SILKSCREEN RESIST COLOR: <input type="checkbox"/> GREEN <input checked="" type="checkbox"/> OTHER RED <input checked="" type="checkbox"/> MATTE <input type="checkbox"/> SEMI-GLOSS				
SURFACE FINISH: <input checked="" type="checkbox"/> IMMERSION GOLD (ENIG) <input type="checkbox"/> ENIG <input type="checkbox"/> IMM. TIN/SILVER OR EQUIV <input type="checkbox"/> OTHER _____				
ARRAY/PANEL: <input type="checkbox"/> CUT AND TRIM PER M1 BOARD OUTLINE <input type="checkbox"/> N.C. ROUTE <input checked="" type="checkbox"/> V. SCORE				
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBs TO MEET OR EXCEED THE REQUIREMENTS OF: <input checked="" type="checkbox"/> ANSI IPC-A-600F CLASS --> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> RoHS <input type="checkbox"/> OTHER PER ORDER				
ALL BOARDS MUST MEET OR EXCEED UL94-V0 REQUIREMENTS. PCB MUST BEAR THE UL94V-0 UL REG. MATERIAL ID NUMBER: BOTTOM LAYER				
ADDITIONAL REQUIREMENTS:				
MICROSECTION: <input type="checkbox"/> YES				
BARE BOARD ELEC. TEST: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> REQUIRED <input type="checkbox"/> PER ORDER				
<input type="checkbox"/> XX MIL VIAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE				
<input type="checkbox"/> XX MIL VIAS REQUIRE CONDUCTIVE FILL AND PLANARIZE				
<input type="checkbox"/> OUTER XX MIL VIAS REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE				
<input type="checkbox"/> LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE				
TITLE: LP-EM-CC1312PSIP				
PROJECT NUMBER: MCU112				
FILE NAME: LP-EM-CC1312PSIP.brd				
DESIGNER: RGW	DATE: 2023-09-01	REVISION: A		
SCALE: 1.00		ALLEGRO DESIGNER VERSION: 17.4		