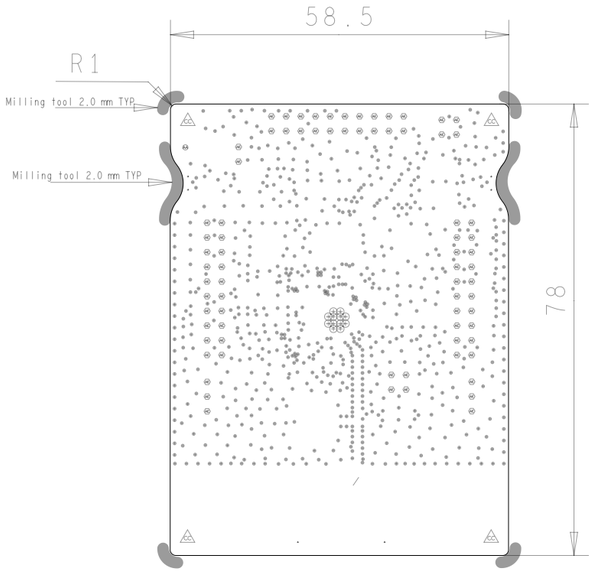


* SURFACE - AIR 0 MM
L1 TOP CONDUCTOR - COPPER 0.035 MM

* DIELECTRIC - FR-4 0.73 MM

L2 BOTTOM CONDUCTOR - COPPER 0.035 MM
* SURFACE - AIR 0 MM

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 0.8 MM



DRILL CHART: TOP to BOTTOM
ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED_SIZE	DRILLED_SIZE	PLATED	QTY
•	0.2	-	PLATED	773
⊕	0.201	-	PLATED	12
⊗	1.05	-	PLATED	76
⊜	1.1	-	PLATED	1
◬	3.2	-	PLATED	4
·	0.899	-	NON-PLATED	4
·	3.2	-	NON-PLATED	2

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:
☐ FR-4 ☒ FR-4 High Tg ☐ OTHER
THICKNESS: ☒ 0.8mm +/-10% ☐ OTHER
TOLERANCE: ☒ ANSI IPC-6012 TYPE 3 CLASS 2
☐ OTHER +/-
BOW & TWIST: ☒ ANSI IPC-6012 TYPE 3 CLASS 2
☐ OTHER +/-

DRILLING:
REFERENCE: ☐ AS SHOWN ☒ NC_DRILL FILES
PTH COPPER THICKNESS: ☒ 20-30 um ☐ OTHER
BOARD FINISH:
SILKSCREEN: ☒ TOP ☒ BOTTOM
SILKSCREEN COLOR: ☒ WHITE ☐ OTHER
SILKSCREEN RESIST COLOR: ☐ GREEN ☒ OTHER RED
☒ MATTE ☐ SEMI-GLOSS
SURFACE FINISH: ☒ IMMERSION GOLD (ENIG) ☐ ENEPIG
☐ IMM. TIN/SILVER OR EQUIV ☐ OTHER
ARRAY/PANEL: ☐ CUT AND TRIM PER M1 BOARD OUTLINE
☐ N.C. ROUTE ☒ V. SCORE
CERTIFICATION: MATERIALS AND WORKMANSHIP FOR ALL PCBS TO MEET OR EXCEED THE REQUIREMENTS OF:
☒ ANSI IPC-A-600F CLASS —> ☐ 1 ☒ 2 ☐ 3
☒ RoHS ☐ OTHER PER ORDER
ALL BOARDS MUST MEET OR EXCEED UL94-VO REQUIREMENTS.
PCB MUST BEAR THE UL94V-O UL REG. MATERIAL ID NUMBER: BOTTOM LAYER
ADDITIONAL REQUIREMENTS:
MICROSECTION: ☐ YES
BARE BOARD ELEC. TEST: ☒ NONE ☐ REQUIRED ☐ PER ORDER
☐ XX MIL VIAS REQUIRE NON-CONDUCTIVE FILL AND PLANARIZE
☐ XX MIL VIAS REQUIRE CONDUCTIVE FILL AND PLANARIZE
☐ OUTER XX MIL VIAS REQUIRE 50 OHM SINGLE-ENDED IMPEDANCE
☐ LAYER 2 & 3 (INNER LAYERS) XX MIL WIDE, XX MIL SPACE TRACES REQUIRE 100 OHM DIFFERENTIAL IMPEDANCE

TEXAS INSTRUMENTS

TITLE: LP-EM-CC2341R10
PROJECT NUMBER: MCU198
FILE NAME: MCU198C.brd

DESIGNER:	DATE:	REVISION:
BK and RdS	2026-11-16	C
SCALE: 1.00	ALLEGRO DESIGNER VERSION: 24.1	

TEXAS INSTRUMENTS	
DRILL	LP-EM-CC2341R10 Rev. C
DATE: 2026-11-16	

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