

123456

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

R1

Milling tool 2.0 mm TYP

Milling tool 2.0 mm TYP

58.5

68

DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED_SIZE	PLATED	QTY
.	0.2	PLATED	1022
•	1.05	PLATED	82
•	1.1	PLATED	1
△	3.2	PLATED	4
.	0.899	NON-PLATED	4
.	3.2	NON-PLATED	2

TEXAS INSTRUMENTS

DRILLLP-EM-CC1354P10-1Rev. A

DATE: 2022-11-09

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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: ☒ 1.6mm +/-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-V0 REQUIREMENTS.
PCB MUST BEAR THE UL94V-0 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-CC1354P10-1

PROJECT NUMBER:
MCU087

FILE NAME:
LP-EM-CC1354P10-1.brd

DESIGNER:
RGW

DATE:
2022-11-09

REVISION:
A

SCALE: 1.00

ALLEGRO DESIGNER VERSION:
17.2

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ART FILM - drill