

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

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.

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

123456