

1

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6

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 (AFTER PRESS, TOP PRIORITY)  
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

Milling tool 0.5 mm TYP

V. SCORE

58.5

V. SCORE

Milling tool 2.0 mm TYP

V. SCORE

95.1

V. SCORE

DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILLIMETERS

FIGURE	FINISHED_SIZE	PLATED	QTY
.	0.2	PLATED	999
•	1.05	PLATED	75
•	1.1	PLATED	1
▲	3.2	PLATED	4
.	0.899	NON-PLATED	6
.	1.0	NON-PLATED	3
.	3.2	NON-PLATED	2
0	1.3x0.6	PLATED	2

TEXAS INSTRUMENTS

DRILL MCU082 RevA

DATE: 11th Oct 2021

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: 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) ☐ ENIG  
☐ 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 REGISTERED MATERIAL ID NUMBER  
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-CC2652PSIP

PROJECT NUMBER:  
MCU082

FILE NAME:  
MCU082-LAUNCHXLCC2652PSIP\_A.brd

DESIGNER:  
RGW

DATE:  
11th Oct 2021

REVISION:  
A

SCALE: 1.00

ALLEGRO DESIGNER VERSION:  
17.2

1

2

3

4

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6

ART FILM - drill