



- DRILL DRAWING
- BOARD OUTLINE
- M5 FAB INSTRUCTIONS
- M7_SHEET_LEGEND
- M9_DIMENSIONS

Layer	Name	Material	Thickness	Gerber
	Top Overlay			GTO
	Top Solder	Solder Resist	0.40mil	GTS
1	Top Layer		1.40mil	GTL
	Dielectric 1	FR-30HR	6.00mil	
2	Signal Layer 1	CF-004	1.38mil	GP1
	Dielectric 2	FR-30HR	44.61mil	
3	Signal Layer 2	CF-004	1.38mil	GP2
	Dielectric 3	FR-30HR	6.00mil	
4	Bottom Layer		1.40mil	GBL
	Bottom Solder	Solder Resist	0.40mil	GBS
	Bottom Overlay			GBO

BUILD STATISTICS	
GENERAL	
NETS	65
COMPONENTS	91
PRIMITIVES	
FILLS	21
TRACKS	2954
STRINGS	591
ARCS	75
LANDS	
PADS	386
WAYS	197
PRINT SCALE	
SCALE	SCALE: 1.00

BUILD CONFIGURATION AND SPECIFICATIONS SUMMARY

- 4 Layer Build
- 7 mil Tracks / 4 mil Spacing
- STD Vias 10/22 mil
- 1 oz. final ext. and planes
- 2 oz. internal planes
- IPC-4552 Ni
- LPI Green Solder Mask
- LPI White Legend
- OK to trim legend as needed
- Board Thickness Approx 1.6mm
- M10_OUTLINE Layer Denotes Board Cutout
- Must be BBT (Bare Board Tested)
- Include BBT Certificate with Order
- Include All BBT Failed Boards With Order

Symbol	Hit Count	Finished Hole Size	Hole Tolerance	Plated	Hole Type
	179	10.00mil (0.254mm)		PTH	Round
	18	15.00mil (0.381mm)		PTH	Round
	6	27.56mil (0.700mm)		PTH	Round
	40	40.16mil (1.020mm)		NPTH	Round
	8	40.16mil (1.020mm)		PTH	Round
	4	47.24mil (1.200mm)		NPTH	Round
	6	47.24mil (1.200mm)		PTH	Round
	2	70.87mil (1.800mm)		NPTH	Round
	2	70.87mil (1.800mm)		PTH	Round
	4	108.27mil (2.750mm)		PTH	Round
	269 Total				

				DESIGNER	JRC	DATE
2		JRC	21 APR 2022	DRAWN	JRC	21 APR 2022
1	DESIGN CREATED	JRC	21 APR 2022	CHECKED	JRC	21 APR 2022
REVISION	DESCRIPTION OF TASK OR MODIFICATION	APPD	DATE	CUSTOMER		
PCB FILE NAME: 600-60108-01_MK26_HAT.PcbDoc						

DESIGN INFORMATION	
BOARD TECHNOLOGY	BOARD SIZE (REFER LAMINATION INFORMATION)
7 TRACK / 7 SPACE / 10/22 VA	65 mm x 57 mm
(MIN. TRACK / PADS / CLEARANCE IN 0.001")	
MINIMUM ANNULAR RING 0.05MM (0.002") EXTERNAL PER IPC-D-275 CLASS 2 LEVEL C AND IS THE MANUFACTURING REGISTRATION ALLOWANCE	
CIRCUIT TYPE: <input type="checkbox"/> SS <input type="checkbox"/> DS <input checked="" type="checkbox"/> PTH MULTILAYER <input type="checkbox"/> Number of Layers : 4	
FINGER CONNECTOR DIM PER:	<input type="checkbox"/> AS SHOWN
No. OFF TOTAL	<input type="checkbox"/> ONE SIDE <input type="checkbox"/> BOTH SIDES
VIAS: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> FEED THRU <input type="checkbox"/> TENTED <input type="checkbox"/> BURIED LAYER SEQUENCE	
<input checked="" type="checkbox"/> UNIQUE DRILL <input type="checkbox"/> 2 SIZES <input type="checkbox"/> BLIND LAYER SEQUENCE	
LAYER CONSTRUCTION PER:	LAMINATION SEQUENCE <input checked="" type="checkbox"/> AS SHOWN
ARTWORK: <input type="checkbox"/> MANUAL <input type="checkbox"/> DIGITISED <input checked="" type="checkbox"/> CAD	FILE NAME: 600-60108-01_MK26HAT_ODB.zip FILE TYPE: ODB++

SUPPLIED ARTWORK/PATTERN MASTER LIST		
DESCRIPTION	DRAWING No./CAD FILE REF.	REVISION
DRILL DRAWING	APERTURE TABLES\FILES ARE EMBEDDED	1

MATERIAL: ☐ FR4-01 ☐ FR4-04 ☐ FR4-08 ☐ POLYIMIDE ☐ ARLON ☒ FR-370HR

THICKNESS: ☐ 0.8mm ☐ 1.2mm ☒ 1.6mm ☐ 2.2mm ☐ 3.2mm

TOLERANCE: ☒ IN A/W ANSI IPC-6012 TYPE 2 CLASS 2 ☐ OTHER +/- _____

BOW & TWIST: ☒ IN A/W ANSI IPC-6012 TYPE 2 CLASS 2 ☐ AS SHOWN

COPPER THICKNESS (FINISHED)

FINISHED OUTER: ☐ 18um (1/2oz) ☒ 35um (1oz) ☐ 70um (2oz)

INNER SIGNAL: ☐ 18um (1/2oz) ☒ 35um (1oz) ☐ 70um (2oz)

INNER PWR: ☐ 18um (1/2oz) ☐ 35um (1oz) ☒ 70um (2oz)

STRUCTURE: ☐ REFER _____

☐ AS PER DRAWING No. _____ ☒ AS SHOWN

DRILLING:

VIEWED FROM: ☒ COMPONENT SIDE ☐ SOLDER SIDE

REFERENCE: ☐ AS SHOWN ☐ PATTERN MASTER LIST ☒ NC_ DRILL FILES

PTH MINIMUM COPPER THICKNESS: ☐ 20um ☐ OTHER _____

NPTH: ☐ TENTED ☐ PADS REMOVED ☐ REMOVE PADS

☐ 2nd DRILL ☐ BOTH ☒ AS SHOWN ☐ NONE

BOARD FINISH: ☐ ETCHING ☐ REFER PATTERN MASTER LIST

LEGEND / SCREEN PRINT: ☐ NONE ☒ COMPONENT ☒ SOLDER

COLOUR: ☒ WHITE ☐ YELLOW ☐ OTHER _____

SOLDER RESIST: ☒ LIQUID PHOTOIMAGEABLE ☐ SCREEN PRINT

COLOUR: ☐ GLOSS ☒ MATTE ☒ GREEN ☐ BLUE ☐ BLACK ☐ RED

TRACK FINISH: ☐ SELECTIVE SOLDER ☐ REFLOW SOLDER

☐ HASL (HOT AIR SOLDER LEVEL)

☐ REFER PATTERN MASTER LIST ☐ OTHER _____

☒ 3uIN IMMERSION GOLD SMOBC (SOLDER MASK OVER BARE COPPER)

☐ HARD GOLD PLATE FINISH ☐ OTHER IPC-4552

☐ AS SHOWN ☐ REFER _____

PROFILING: ☒ CUT AND TRIM ACCORDING TO LAYER MECHANICAL 10 (BOARD OUTLINE)

☐ REFER PCB BOARD DWG No. _____

☐ USE PROFILE/ ROUTE TAPE SUPPLIED (REFER PATTERN MASTER LIST)

☐ SQUARE CUT ☒ N.C. ROUTE ☐ V. SCORE ☐ BLANK

ACCEPTABILITY: MATERIALS AND WORKSMANSHIP FOR ALL PRINTED WIRING BOARDS TO MEET OR EXCEED THE REQUIREMENTS OF:

☒ IN A/W ANSI IPC-A-600F ☐ 1 ☒ 2 ☐ 3

☐ UL CERTIFICATION ☐ AUSTEL

☐ ML-P-55110E GRP ☐ A ☐ B ☐ AS2546 ☐ OTHER _____

ADDITIONAL REQUIREMENTS:

MICROSECTION: ☒ NONE ☐ SAMPLE PLAN ☐ ML-P-55110E SERIAL Nos. PER ORDER

CERTIFICATION: ☐ NONE ☐ ML-P-55110E GRP ☐ A ☐ B IPC CLASS: ☐ 1 ☒ 2 ☐ 3

☐ QUALITY RELEASE REPORT ☒ OTHER _____ PER ORDER

ELECTRICAL TEST: Bare Board ☐ NONE ☒ REQUIRED ☐ PER ORDER

SURFACE MOUNT: ☐ NONE ☐ 1 SIDE ☒ 2 SIDES ☐ MIN. PITCH 0.65mm

MANUFACTURER'S ID/LOGO: ☒ NONE ☐ FOL ☐ LEGEND ☐ REFER _____

MANUFACTURER'S ACCREDITATION: ☒ ISO9001/13485 ☐ NONE

PACKAGING AND HANDLING: ☒ PER ORDER ☐ REFER _____

454 Bio

351A NEW WHITFIELD ST.
GUILFORD, CT 06430
(293) 794-7100

SCALE: 1.00

Title: MK2.6 HAT

1/17/2024

PCBA:
800-60108-01

PCB:
600-60108-01

1 OF 1

A2

DO NOT SCALE

DIMENSIONS
IN
MILLIMETERS

