

FABRICATION NOTES

(REV 1.0)

- 1) FINISHED TRACE LINE WIDTHS SHOULD MATCH SUPPLIED GERBER FILES.(EXCEPT WHERE NOTED)
- 2) MATERIAL :

☒ FR4 (GF per IPC-4101)

☐ GPY (GI per IPC-4101)

☐ OTHER
- 3) COPPER WEIGHT:

OUTER LAYERS : ☐ 1/4 oz. ☐ 1/2 oz. ☒ 1 oz. ☐ 2 oz.

INNER LAYERS : ☐ 1/4 oz. ☐ 1/2 oz. ☐ 1 oz. ☐ 2 oz. ☐ NONE
- 4) SOLDER MASK: MATTE OR SEMI-GLOSS FINISH PER IPC-SMA-840.

☒ LIQUID PHOTOIMAGEABLE

☐ DRY FILM

☐ NONE

☒ OVER BARE COPPER

☐ OVER TIN LEAD

☐ OVER FULL BODY GOLD

☒ GREEN

☐ RED

☐ BLUE
- 5) OVERALL BOARD THICKNESS:

☒ 0.062"

☐ 0.093"

☐ 0.125"

☐ OTHER

☐ +/- 0.005"

☒ +/- 0.007"

☐ +/- 0.010"

☐ OTHER
- 6) BARE BOARD ELECTRICAL TEST:

☒ TESTED TO NETLIST DATA

☐ NO TEST REQUIRED
- 7) HOLE DIAMETER TOLERANCES ARE:

PLATED HOLES : +/- 0.003".NON PLATED HOLES : +/- 0.002".
- 8) SILK SCREEN USING EPOXY BASED INK.

☒ BOTH SIDES

☐ PRIMARY SIDE

☐ SECONDARY SIDE

☐ NONE

☒ WHITE

☐ YELLOW

☐ BLACK
- 9) MINIMUM ANNULAR RING:

☒ .002" FOR EXTERNAL LAYERS

☐ .001" FOR INTERNAL LAYERS
- 10) PLANE REGISTRATION:

+/- .005" TO TOP PLANE FOR ALL PLANES
- 11) MINIMUM PLATING THROUGH ALL HOLES IS:

.001" THICK COPPER
- 12) FABRICATE IN ACCORDANCE WITH IPC-6012, CLASS 2.
- 13) AS PER IPC ENIG SPECIFICATION 4552, 2-4 MICRO-INCHES IMMERSION GOLD OVER 120-240 MICRO-INCHES NICKEL.
- 14) WARP AND TWIST:

NOT TO EXCEED .007" PER INCH ACROSS THE DIAGONAL
- 15) ACCEPTABILITY: (PER LATEST REVISION)

☒ IPC-A-600

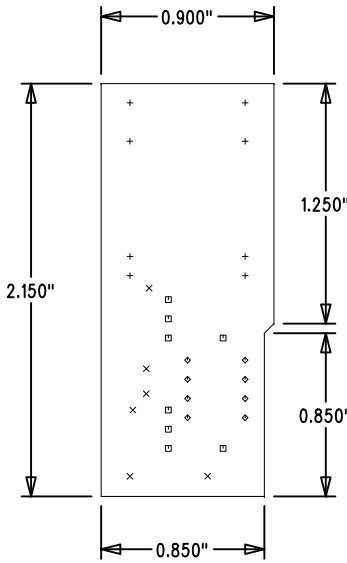
☐ IPC-RB-276

☐ MIL-P-55110
- 16) MANUFACTURER TO ADD MFR'S LOGO, DATE CODE, UL CODE AND ET STAMP.
- 17) VENDOR TO SUPPLY CROSS SECTIONS AND TEST COUPONS PER LOT
- 18) SURFACE MOUNT PADS:

TOP LAYER: 48

BOTTOM LAYER: 0

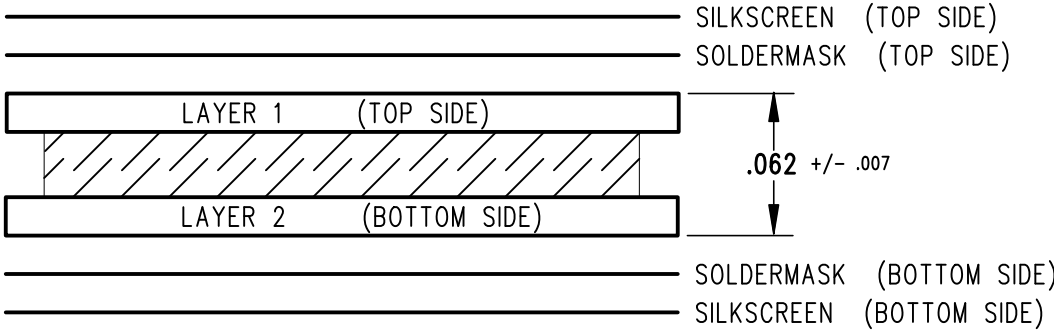
TOTAL: 48



BROOKHAVEN NATIONAL LABORATORY
DETECTOR BIAS DRIVER PIGGYBACK PCB
AK/WJA 09-11-18 10-1735-1 REV -
LAYER 1 - TOP - PRIMARY SIDE

SIZE	QTY	SYM	PLATED	TOL
0.018	6	✕	YES	+0.003/-0.018
0.032	8	+	YES	+/-0.003
0.037	8	◇	YES	+/-0.003
0.039	8	□	YES	+/-0.003

2 LAYER STACKUP DETAIL



	QTY REQD	FSCM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		MATERIAL SPECIFICATION	
<div>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES ARE:<div>FRACTIONSDECIMALSANGLES</div><div>\pm.XX= 0.010\pm.XXX= 0.005</div></div> <div>MATERIALFINISH</div> <div>CONTRACT NO.</div> <div>APPROVALSDATE</div> <div>DRAWN W. J. AFFOURTIT09-11-18</div> <div>CHECKED A. KUCZEWSKI09-11-18</div> <div>ISSUED</div> <div>CUSTOMER</div> <div><div>BROOKHAVEN NATIONAL LABORATORY</div><div>TITLE</div><div>DETECTOR BIAS DRIVER PIGGYBACK PCB FABRICATION DRAWING</div></div> <div><div>SIZE C</div><div>FSCM NO. T-2018-35</div><div>DWG NO. 10-1735-1</div><div>REV. -</div></div> <div>SCALE 1 : 1</div> <div>SHEET 1 OF 1</div>							
APPLICATION				DO NOT SCALE DRAWING			