

- 1. ALL DIMENSIONS ARE IN INCHES, UNLESS
- 2. THE PWB SHALL BE FABRICATED TO IPC-6012, CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2. CURRENT REVISIONS.
- 3. BOARD MATERIAL SHALL BE FR4 with Dk <= 4.2 OR EQUIVALENT, RoHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B. COLOR: NATURAL.
- 4. BOARD MATERIAL & CONSTRUCTION TO BE U.L. APPROVED AND MARKED ON THE FINISHED BOARD.
- 5. MINIMUM COPPER WALL THICKNESS OF PLATED—THRU HOLES TO BE .001 INCH, WITH A MINIMUM
- 6. OVERALL BOARD THICKNESS TO BE .062 +/- 10% AND APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES, MEASURED FROM COPPER TO COPPER.
- 7. MAX. WARP & TWIST TO BE .0075 INCHES PER INCH.
- 8. BOARD MUST BE ELECTRICALLY TESTED USING
- 9. FINISHED PCB SHALL REFLECT GERBER ARTWORK.

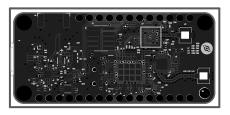
  COPPER MODIFICATION WITHIN THE OUTLINE IS NOT ALLOWED WITHOUT WRITTEN PERMISSION EXCEPT AS NOTED IN THIS DRAWING OR TO MEET CONTROLLED IMPEDANCE TARGETS. WHEN REQUESTING CHANGES, VENDOR SHALL SUPPLY GERBERS FOR COMPARISSON SHOWING EXPECTED FINISHED PRODUCT ACCEPTANCE CRITERIA, NOT PRE-ETCHED FILMS.
- 10. TRACES .011" WIDE ON LAYER 1 SHALL MEASURE TO BE

FINISHED AS SMOOTH WALL BY VENDOR. PROCESS NOTES:

- 1. PLATE ALL EXPOSED AREAS WITH ELECTROLESS IMMERSION GOLD, NICKEL 150 MICROINCHES THK MIN. GOLD 2-5 MICROINCHES THK MIN.
- 2. APPLY LPI SOLDERMASK OVER BARE COPPER (SMOBC), COLOR: BLACK. SOLDERMASK SHALL CONFIRM TO IPC-SM-840. CLASS H. CURRENT REV.
- 3. SOLDERMASK ARTWORK HAS ZERO (0) OVERSIZED PADS. FABRICATION VENDOR IS ALLOWED TO ADJUST THE COMPONENT SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENTS.
- 4. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE

ard Lay	er Stack							
ımber	Name	Туре	Material	Thickness	(Whéight (o	aDk	Orientatio	n
	Top Overl	@verlay						
	Top Solde	Solder Ma	Solder Re:	ist 0.6		3.5		
1	Top Layer	Signal		1.9	1		Тор	
	Top Prepr	Pgrepreg		6		4.2		
2	Mid Layer	Signal		2.5	2		Notallowed	
	Bottom Co	бөге		39		4.2		
3	Mid Layer	&ignal		2.5	2		Notallowed	
	Bottom Pr	êpepge g		6		4.2		
4	Bottom La	Sègnal		1.9	1		Bottom	
	Bottom So	Babilder Ma	Solder Re:	ist 0.6		3.5		
	Bottom O	@ixleaniav						

Approximately 0.011" width with 0.010" spacing or as needed to be modified by fabricator.



Comment	Manufacturer Par	Description	Designator
10uF	GRM155R60G10		C1, C4, C7,
0.1uE	GRM033R61A10		C2, C3, C5,
4.7uF	GRM035R60J475		C11. C18. C
10nF	GRM033R61E103		C12
47pF	GRM0335C1E470		C13, C14
1uE	GRM033R60J105		C17
120pF	GRM0335C1H12		C23
27pF	GRM0335C1E270		C27
22pF	GRM0335C1H22		C28
10pF	GRM0335C1E100		C29. C41
100pF	GRM0335C1H10		C31
1.8pF	GRM0335C1H1R		C32
8.2pF	GRM0335C1H8R		C33
3.3pF	GRM0335C1H3R		C34. C37. C
33pF	GRM0335C1H33		C35
1nF	GRM033R71E102		C36
2.2pF	GRM0335C1H2R		C39. C40
LED RED DIFFUSED	LTST-C191KRKT	LED 0603	D1.D2
Schottky Diode	BAT30F4	DIODE SCHOTTKY 3	D3
DiodeESD	PESD5V0R1BSFY	SMD ESD Diode 0201	D5
LED BLUE DIFFUSED	LBQ39G-L200-3	LED 0603	D6
Ferrite Bead	BLM18HE152SN1	D	FB1
USB Micro	1050170001	CONN USB Micro-B 1	H2
CONN HEADER SMD	S2B-PH-SM4-TB(	CONN HEADER SMD	H3
U.FL.Connector		U.FL Connector	H4, H6
CONN-H-10POS	FTSH-105-01-F-E	Connector	J1
15uH	BRL1608T150M	Inductor	L1
1.5k@ 250mA	CIM05J152NC	Inductor	L2
470nH	LOB15NNR47J10	Inductor	L3
120nH	LQP03TNR12J02E	Inductor	L4
4.7nH	LQP03TN4N7H02	Inductor	L5
3.3nH	LQP03TN3N3B02		L6
3.0nH	LQP03TN3N0B02	Inductor	L7
6.8nH	LQP03TN6N8J02I	Mandricator	L8, L10, L11

LQP03TN1N3B02 Inductor

LQP03TN12NH02 Inductor

L9

6.8nH 1.3nH

12nH

040 020