NOTES - UNLESS OTHERWISE SPECIFIED:

FABRICATE TO MEET OR EXCEED THE REQUIREMENTS OF IPC-6012 FOR CLASS 2 AS DEFINED IN IPC-6011. MINIMUM TRACE WIDTH .008, MINIMUM CLEARANCE .008 mil

MATERIAL: LAMINATE FLAME RETARDANT EPOXY-GLASS PER IPC-4101/126, 170 DEGREE C MINIMUM TG. DECOMPOSITION TEMPERATURE 340 DEGREES C MINIMUM, T288 DELAMINATION TIME OF 35 MINUTES MINIMUM, MAXIMUM THICKNESS EXPANSION OF 3% FROM 50-260 DEGREES C. PREPREG MATERIALS PER /126 SHALL MEET THE SAME REQUIREMENTS. INNER LAYER FOIL PER IPC-4562, TYPE E, GRADE 3, CLASS 2.

PLATING: ELECTRO-DEPOSITED COPPER, HOLE WALL PLATING AVERAGE MINIMUM .001, NO LESS THAN .00098

FINISH: ENIG (Electroless Nickel / Immersion Gold) 125-200 micro inches nickel/2-5 micro inches gold.

REGISTRATION: MINIMUM ANNULAR RING .001, NO BREAKOUT ALLOWED, TEARDROPPING ALLOWED IF MIN CLEARANCE MAINTAINED.

FABRICATION: NON-FUNCTIONAL INNER-LAYER PADS SHALL NOT BE REMOVED FROM LAYERS 1, 2, 3, N-2, N-1, AND N.
THIEVING IS ALLOWED IF 0.1 MINIMUM CLEARANCE TO CONDUCTIVE FEATURES IS MAINTAINED

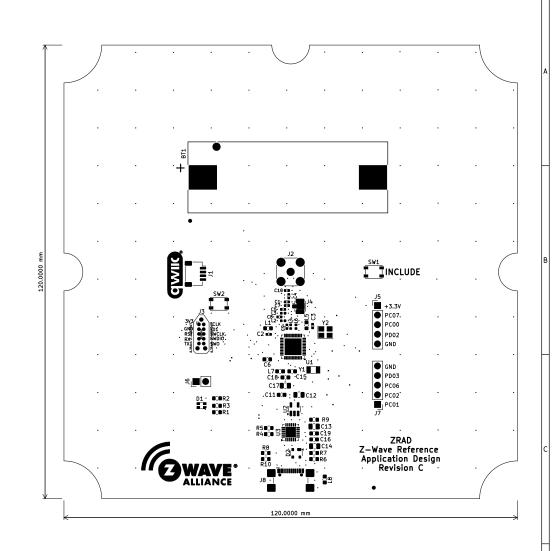
SOLDER MASK: LPI BOTH SIDES OVER BARE COPPER PER IPC-5M-840, CLASS T, .0005" THICK, COLOR: MATTE GREEN. ALL FIDUCIALS, LANDS AND HOLES, EXCEPT VIAS, SHALL BE FREE OF MASK MATERIAL.

SILKSCREEN: WHITE NON-CONDUCTIVE EPOXY. INK MUST WITHSTAND PEAK TEMPERATURE OF 260 DEGREES C 60 SECONDS, 3 CYCLES WITHOUT DISCOLORATION.

MARKING: VENDOR LOGO FOLLOWED BY 94V-0 AND FOUR-DIGIT DATE CODE.

ITAR not required. IPC-A-610 Class 2.
This is a cost sensitive consumer product.

	LAYER STACKUP	File Name
	Silkscreen TOP	*.GTO
	Solder Mask TOP	*.GTS
1	Signal Layer TOP 1.0 OZ Cu	*.GTL
	prepreg - 0.008" +/001"	
2	Signal Layer L1 1.0 OZ Cu	*.G2
	CORE - 0.039" +/004"	
3	Signal Layer L2 1.0 OZ Cu	*.G3
	prepreg - 0.008" +/001"	
4	Signal Layer BOT 1.0 OZ Cu	*.GBL
	Solder Mask BOT	*.GBS
	Silkscreen Bottom	*.GBO
	Stencil TOP	*.GTP
	Edge Cuts	*.GM1
	Excellon Drill File	*.DRL
	Component Position File	*.POS



Eric Ryherd — DrZWave@drzwave.blog			
Z-Wave Alliance			
Sheet:			
File: ZRAD.kicad_pcb			
Title: ZRAD Z-Wave Reference Application Design			
Size: A Date: 2024-05-13	Rev: C		
KiCad E.D.A. 8.0.0 Id: 1/1			