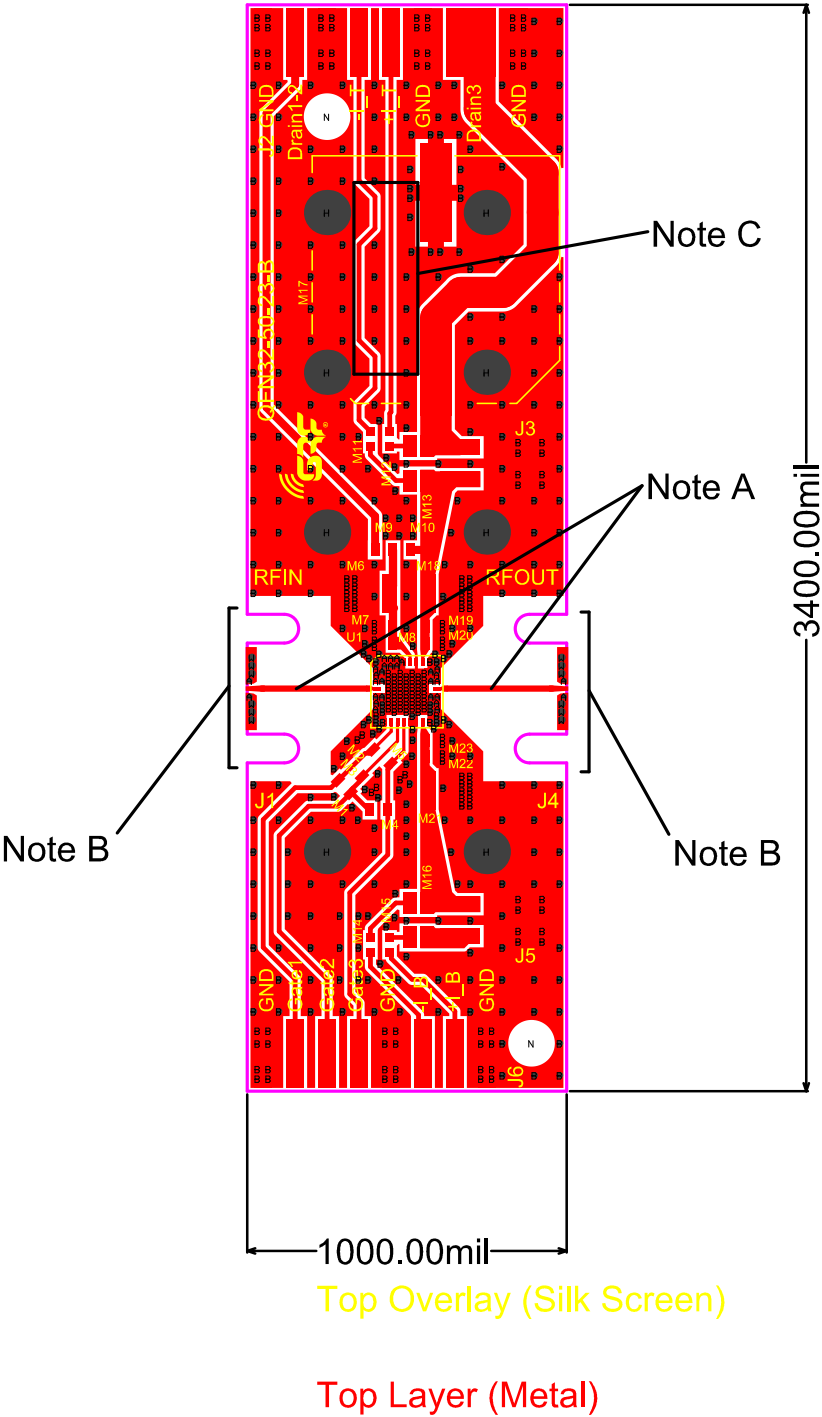


REV	Description	Date

Specifications:

All units are in mils unless otherwise specified.

- Materials
Beginning foil thickness 0.5oz min. but shall meet the minimum requirements below:
Layer 1 - Top Layer, Conductor, 1.8mil finished thickness
Dielectric - Rogers 4350, 10mil +/- 1mil
Layer 2 - Bottom Layer, Conductor, 1.8mil finished thickness
Total Board Thickness = 13.6mil +/-10% not including solder mask.
- Hole Plating
Copper plate in Thru Hole Vias shall be:
Wall/Barrel thickness shall be a minimum of 1.0mil thick
- Finish
ENIG
Thickness 3-8 micro inches.
Solder Mask
Liquid Photo Imageable (LPI) Solder Mask Over Bare Copper (SMOBC)
Color: Red or Approved Equal.
Solder mask is not to be applied to bottom of PCB
Silkscreen: White Non-Conductive Epoxy Ink.
Silkscreen is not to be applied to bottom of PCB
- Tolerances
Overall board dimension tolerance +/- 5mil.
Hole Diameter >= 100mil +/- 5mil
Hole Diameter < 100mil +/- 3mil
Layer to layer registration should be +/- 3mil.
All holes shall be located within hole to pad tangency.
- Traces
Conductors indicated as Note A shall be 20mil +/- 1mil wide. Manufacturer shall test for lines indicated to be 50 Ohm +/- 5% and may adjust the width as needed.
Minimum conductor width is 6mil +/- 1mil.
Minimum conductor to conductor spacing is 6mil.
TDR coupon required to be delivered with boards.
The controlled impedance on layer 1 shall be 50 Ohms +/- 5%.
- RF Connections
Areas indicated as Note B will have metal extending to the board edge and exposed when viewed from the side after fabrication.
Gerber files will show metal extending past to PCB edge in these areas
All extended copper should be milled to PCB edge
This note will apply to all layers in the indicated area.
- UL Mark and Date code may be added to top layer silk screen in area noted in Note C. Lettering should be oriented on same axis as Guerrilla RF Logo lettering.



Drill Drawing

Symbol	Count	Hole Size	Plated	Hole Type	Drill Layer Pair
A	29	8.00mil (0.203mm)	PTH	Round	Top Layer - Bottom Layer
B	471	10.00mil (0.254mm)	PTH	Round	Top Layer - Bottom Layer
W	12	14.00mil (0.356mm)	PTH	Round	Top Layer - Bottom Layer
H	8	125.00mil (3.175mm)	PTH	Round	Top Layer - Bottom Layer
N	2	125.98mil (3.200mm)	NPTH	Round	Top Layer - Bottom Layer
	522 Total				

		Guerrilla RF		
Dimensions are in inches unless otherwise specified.	SIZE		DOCUMENT NO. QFN32-50-23-B	REV A
	SCALE NONE		Date: 10/04/2024	Sheet 1 of 1
Drawn By: R. Williamson				