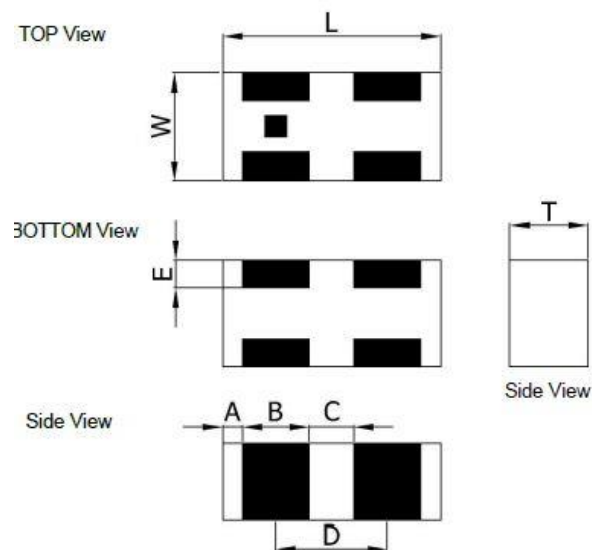


ELECTRICAL SPECIFICATION

PARAMETERS		VALUE	UNIT
Frequency Range		2400 ~ 2500	MHz
Return Loss		-7	dB
Peak Gain, (typ)		1	dBi
VSWR, max		2.6	-
Polarization		Linear Vertical	-
Radiation Pattern		Directional	-
Impedance		50	Ω
Moisture Sensitivity Levels	Refer to : IPC/JEDEC J-STD-020	Level 1	-
HBM ESD	Pass on all pins (Base on AEC-Q200-002)	1	kV
MM ESD	Pass (Base on EIA/JESD22-A115)	200	V
Operating Temperature Range		-40 ~ +85	°C
Storage Temperature Range		-40 ~ +85	°C
Storage Condition before Soldering (Included packaging material)	Storage Temperature Range	+5 ~ +40	°C
	Relative Humidity	30 ~ 70	%

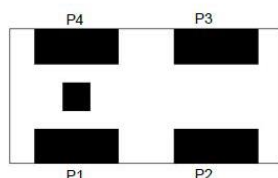
MECHANICAL SPECIFICATION



Symbol	Dimension (mm)
L	1.0 ± 0.1
W	0.5 ± 0.10
T	0.35 ± 0.10
A	0.10 ± 0.10
B	0.3 ± 0.10
C	0.2 ± 0.10
D	0.50 ± 0.10
E	0.125 ± 0.10

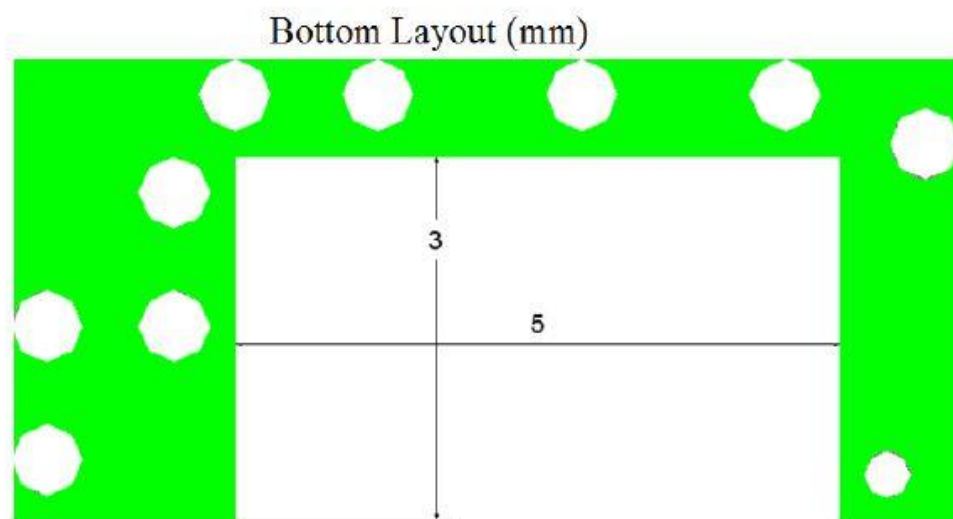
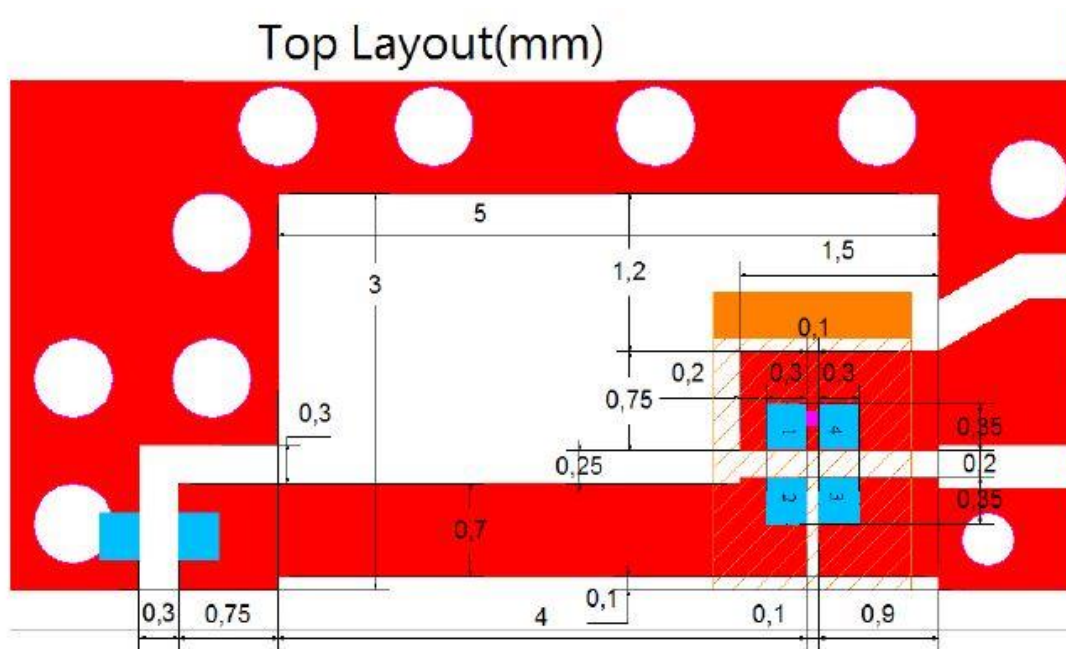
CONSTRUCTION

TOP View

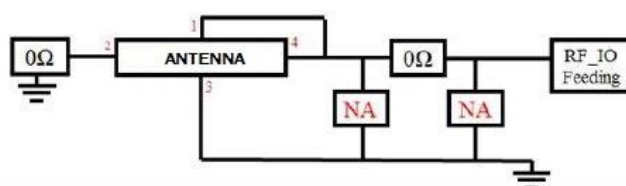
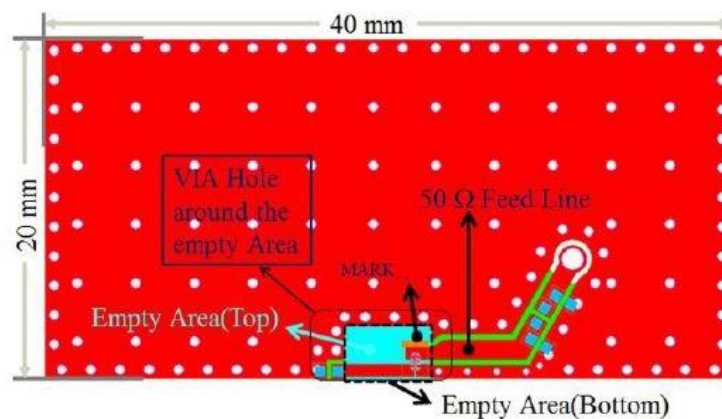


PIN	Connection
1	Feeding
2	GND_1
3	GND_2
4	Feeding

■ SOLDER LAND PATTERN

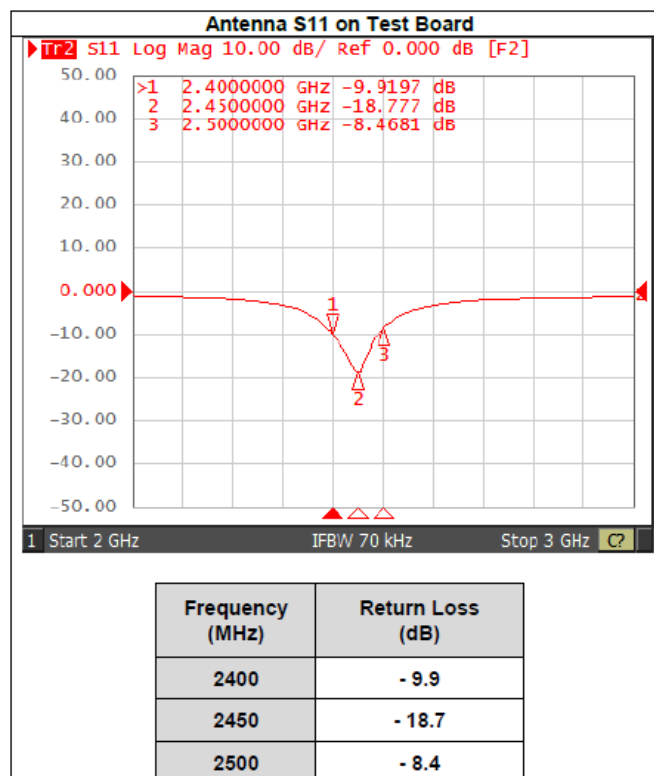


■ ANTENNA ON TEST BOARD (Thickness 0.8mm)

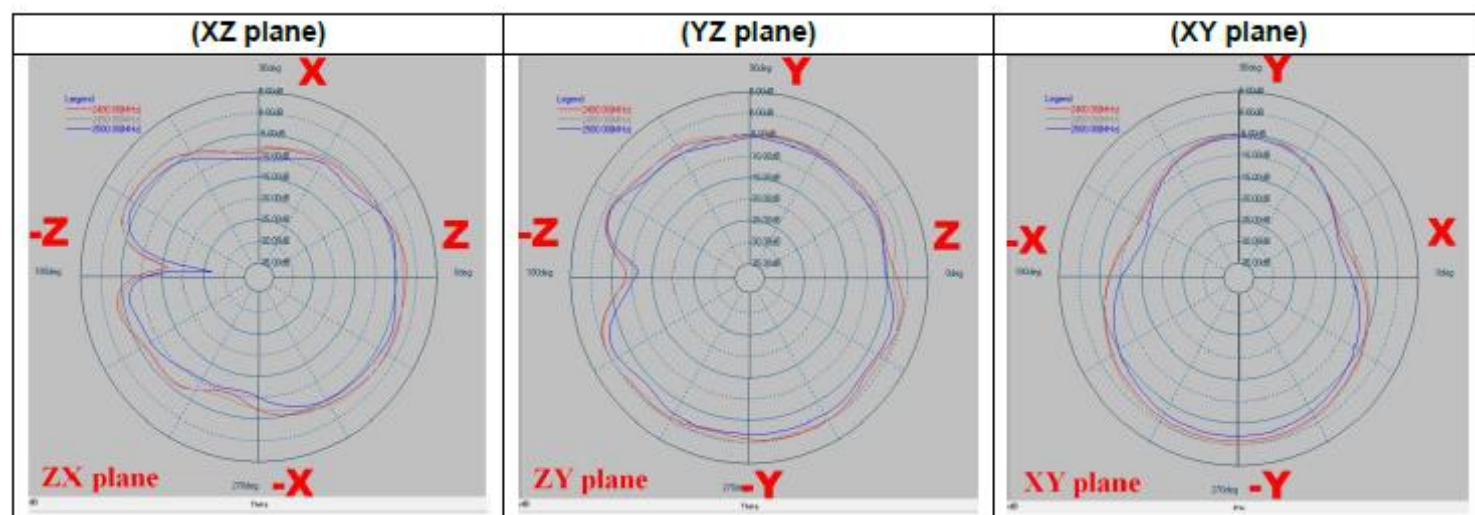
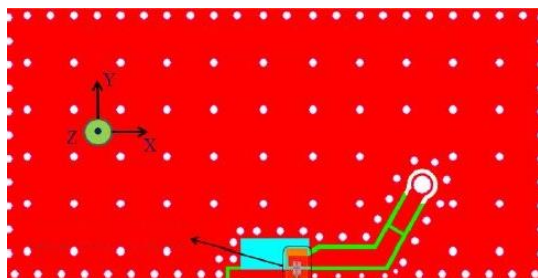


Test EVB

40 x 20 x 0.8 mm³



■ RADIATION PATTERN



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-2.15 dB	-4.93 dB	0.13 dB	-2.31 dB	-0.88 dB	-4.60 dB
2450	-2.12 dB	-4.91 dB	0.21 dB	-2.06 dB	-0.12 dB	-4.10 dB
2500	-3.59 dB	-6.68 dB	-1.40 dB	-3.63 dB	-2.05 dB	-5.89 dB

ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



APPROVAL

RALTRON	
DRAWN BY:	AR, February 10, 2023
APPROVED BY:	CP, February 10, 2023 A, Initial Release
REVISION:	B, March 04, 2024 Added MSL

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