



ELECTRICAL SPECIFICATION

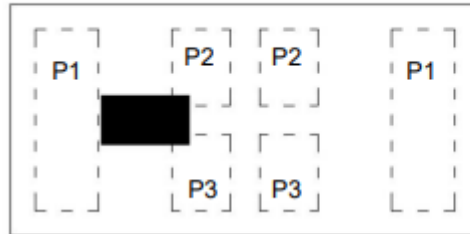
PARAMETERS		VALUE	UNIT
Frequency Range		2400 ~ 2500	MHz
Gain, typ		1.5	dBi
VSWR, max	@ 2400 ~ 2500 MHz	4.5 : 1	-
Polarization		Linear	-
Azimuth Beamwidth		Omni-directional	-
Impedance		50	Ω
HBM ESD	Pass on all pins (Base on AECQ200-002)	1	kV
MM ESD	Pass (Base on EIA/JESD22-A115)	200	V
Operating Temperature Range		-40 ~ +85	$^{\circ}\text{C}$
Storage Temperature Range		-40 ~ +85	$^{\circ}\text{C}$
Storage Condition before Soldering (Included packaging material)	Storage Temperature Range	+5 ~ +40	$^{\circ}\text{C}$
	Relative Humidity	30 ~ 70	%

MECHANICAL SPECIFICATION

Figure	Symbol	Dimension (mm)
Top view	L	1.60 ± 0.15
	W	0.80 ± 0.15
	T	0.50 ± 0.10
Side view	A	0.22 ± 0.10
	B	0.25 ± 0.10
Bottom view	C	0.20 ± 0.10
	D	0.10 ± 0.05
	E	0.63 ± 0.10
	F	0.265 ± 0.10
	G	0.10 ± 0.05

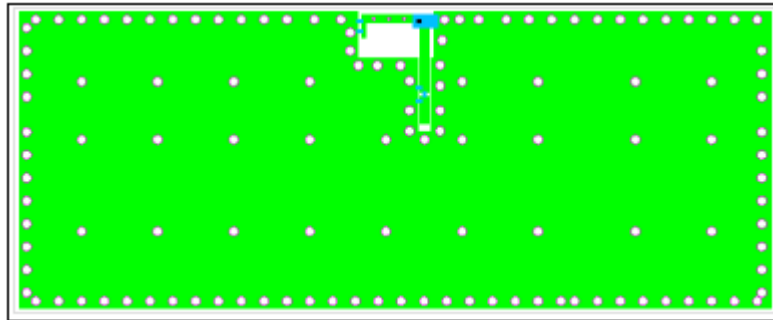
CONSTRUCTION

Top view

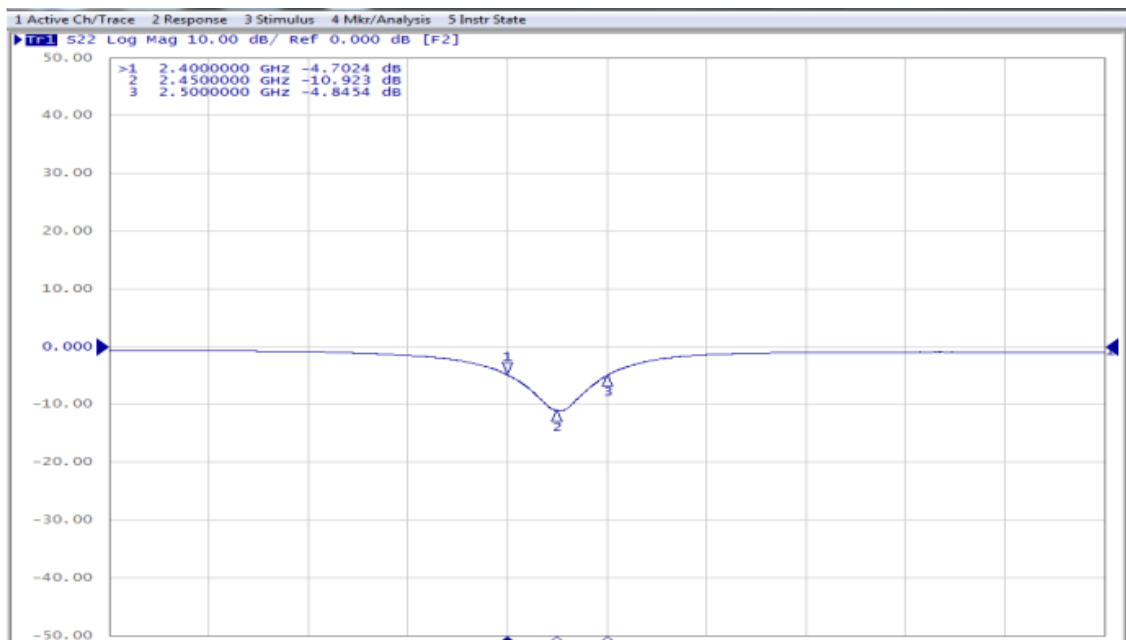


PIN	Connection
P1	Solder Pin
P2	Solder Pin
P3	Feeding

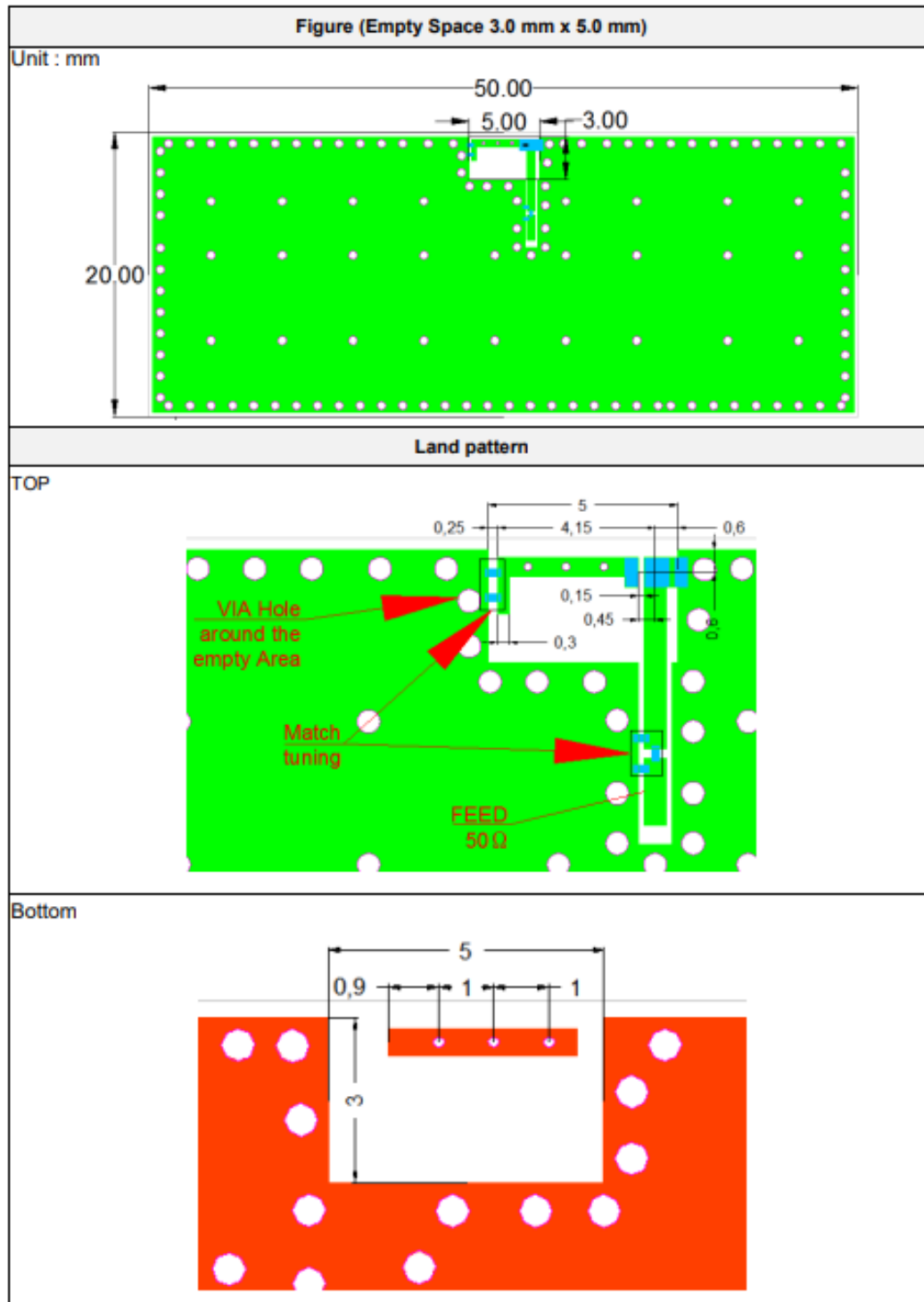
■ TEST BOARD (Thickness 0.8 mm)



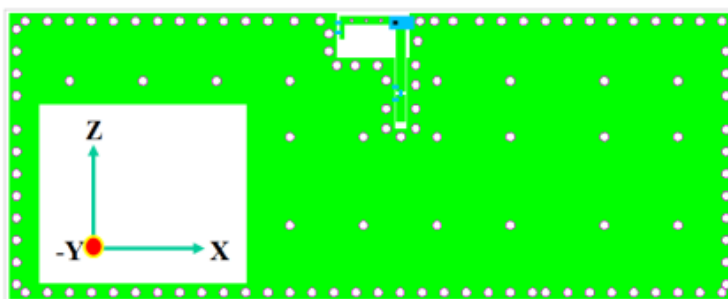
ANTENNA S11 on Test Board



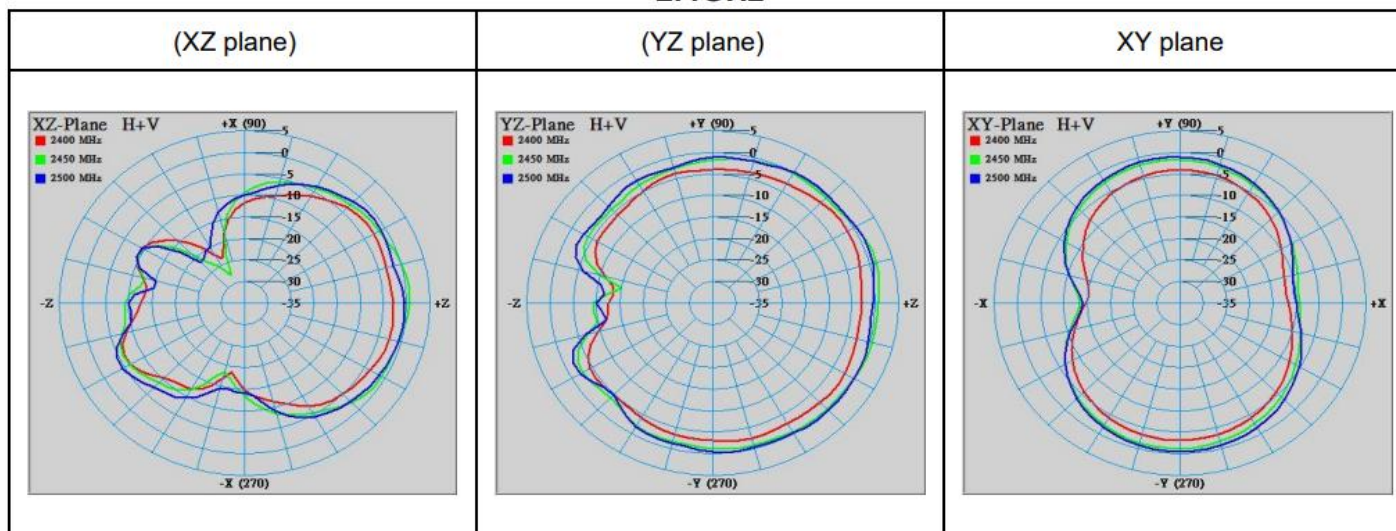
■ SOLDER LAND PATTERN DESIGN



■ RADIATION PATTERN



2.4GHz



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-2.54	-7.06	-1.39	-3.79	-3.08	-6.34
2450	0.65	-4.87	1.48	-1.53	-1.22	-4.21
2500	-0.37	-5.03	0.86	-1.35	-0.47	-3.63

■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, April 02, 2024
APPROVED BY:	CP, April 02, 2024
REVISION:	A, Initial Release

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