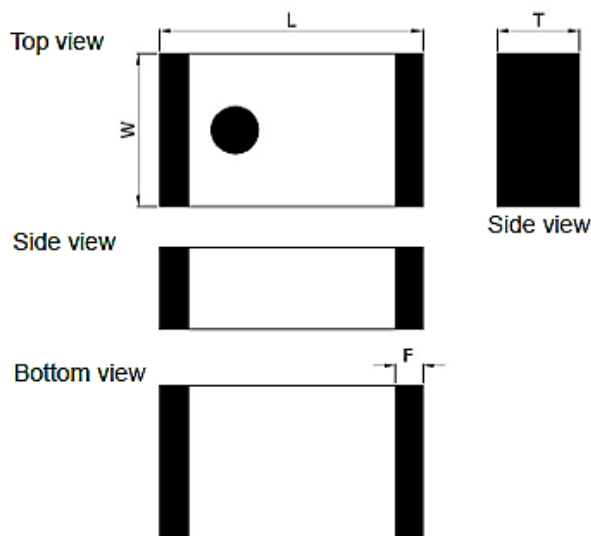




ELECTRICAL SPECIFICATION

PARAMETERS	VALUE		UNIT
Frequency Range	2400 ~ 2500	5150 ~ 7150	MHz
Gain, typ	1.5	4.5	dBi
VSWR, max	3:1		-
Polarization	Linear		-
Azimuth Beamwidth	Omni-Directional		-
Impedance	50		Ω
Operating Temperature Range	-40 ~ +85		°C
Storage Temperature Range	-40 ~ +85		°C

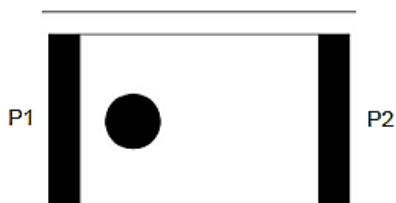
MECHANICAL SPECIFICATION



Symbol	Dimension (mm)
L	2.0 ± 0.15
W	1.20 ± 0.15
T	0.60 ± 0.10
A	0.20 ± 0.10

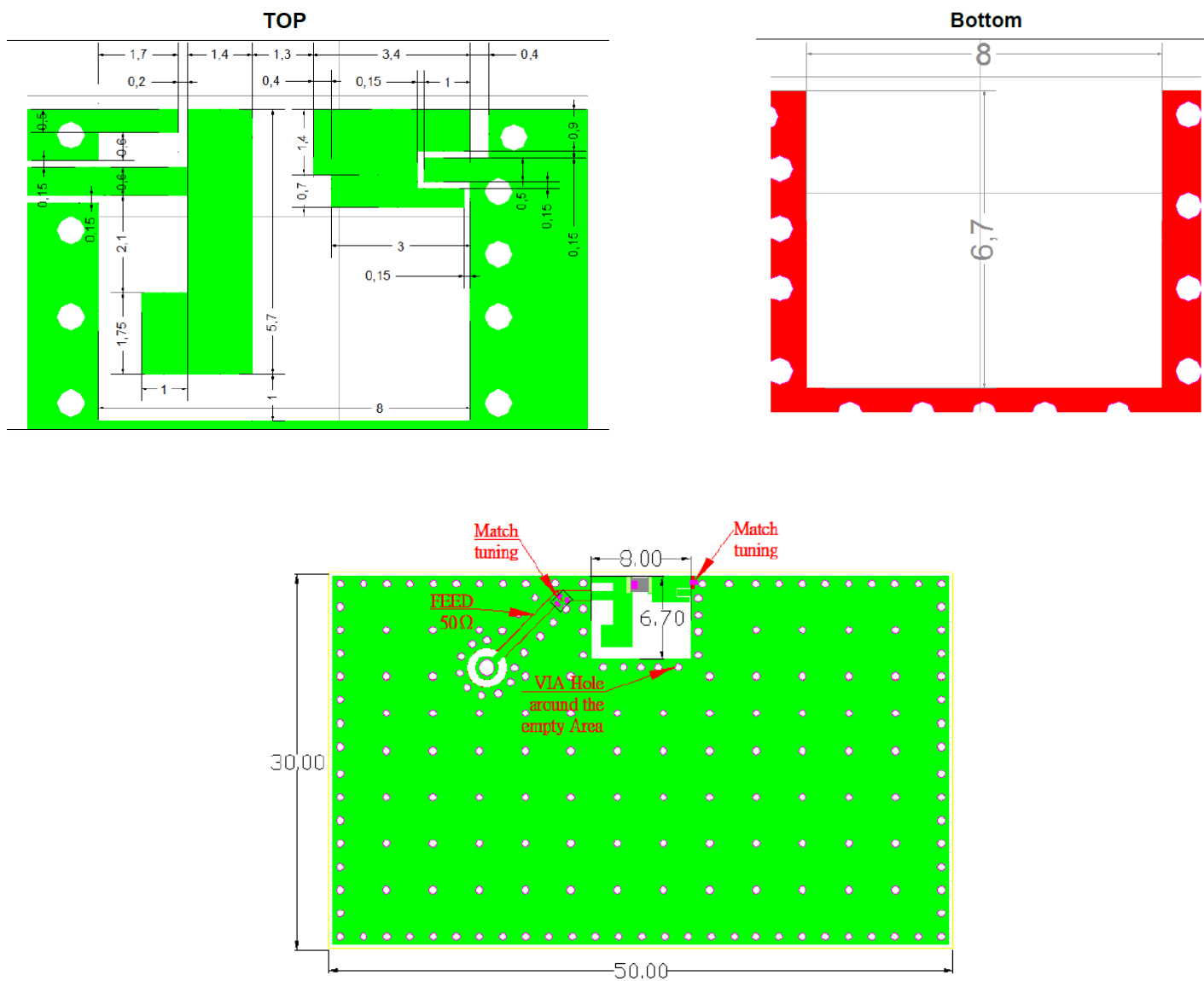
CONSTRUCTION

Top view



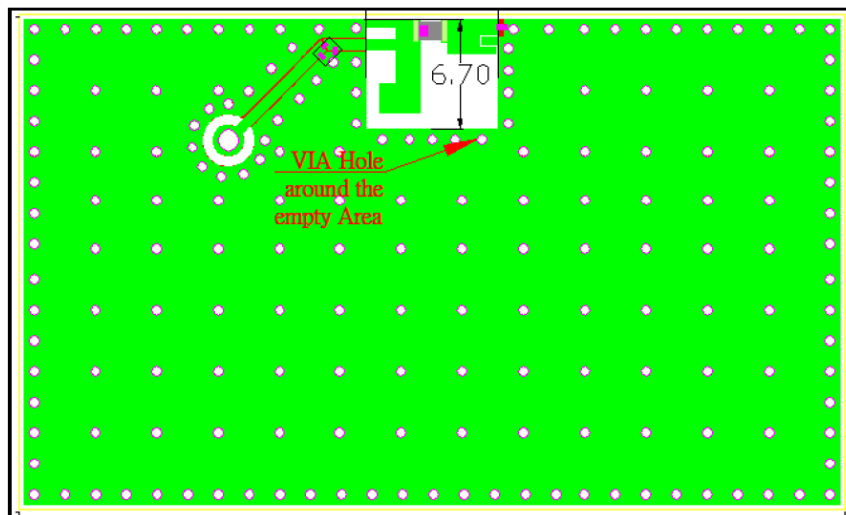
PIN	Connection
P1	Feeding
P2	Soldering terminal

■ SOLDER LAND PATTERN



Unit: mm

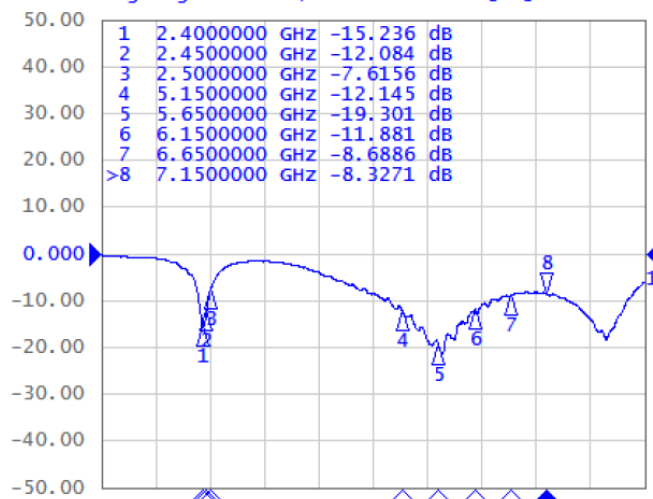
■ ANTENNA ON TEST BOARD (Thickness 0.8mm)



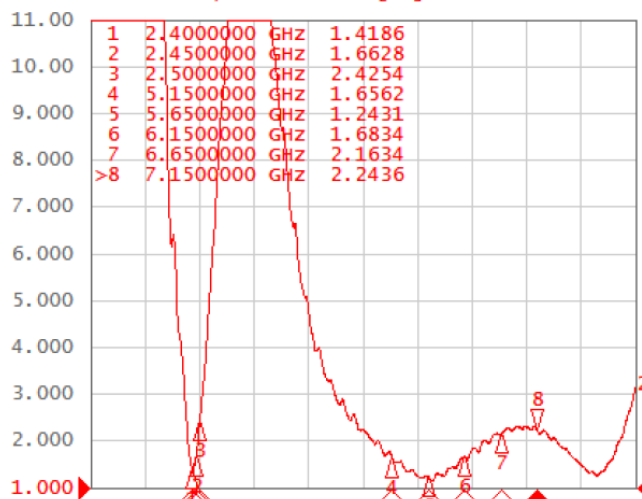
■ FREQUENCY CHARACTERISTICS

ANTENNA S11 ON TEST BOARD

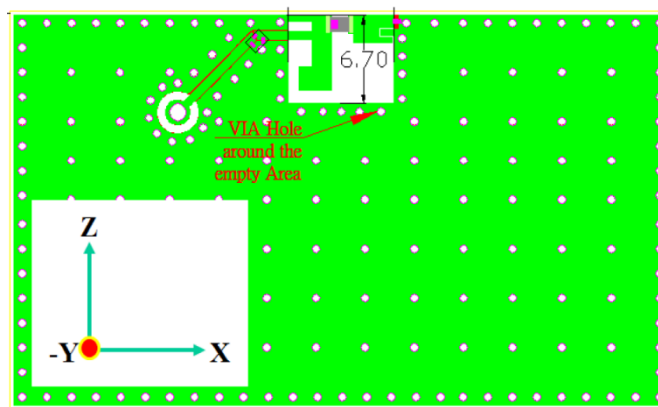
Tr1 S11 Log Mag 10.00 dB/ Ref 0.000 dB [F2]



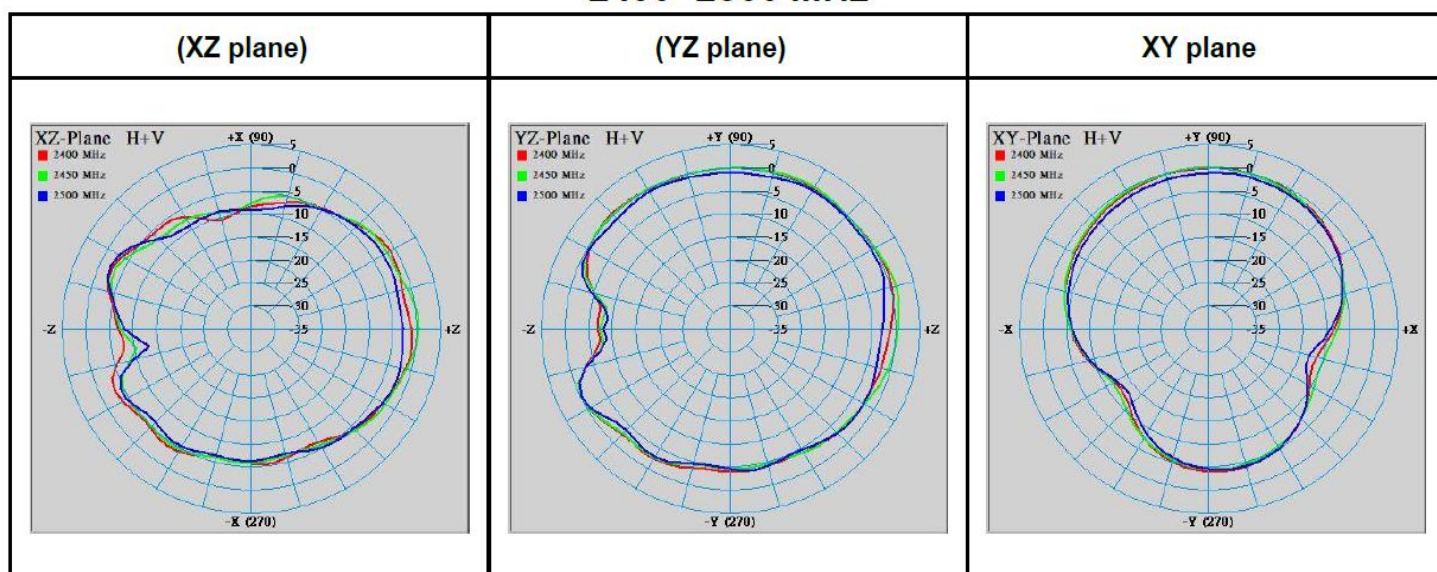
Tr2 S11 SWR 1.000 / Ref 1.000 [F2]



RADIATION PATTERN

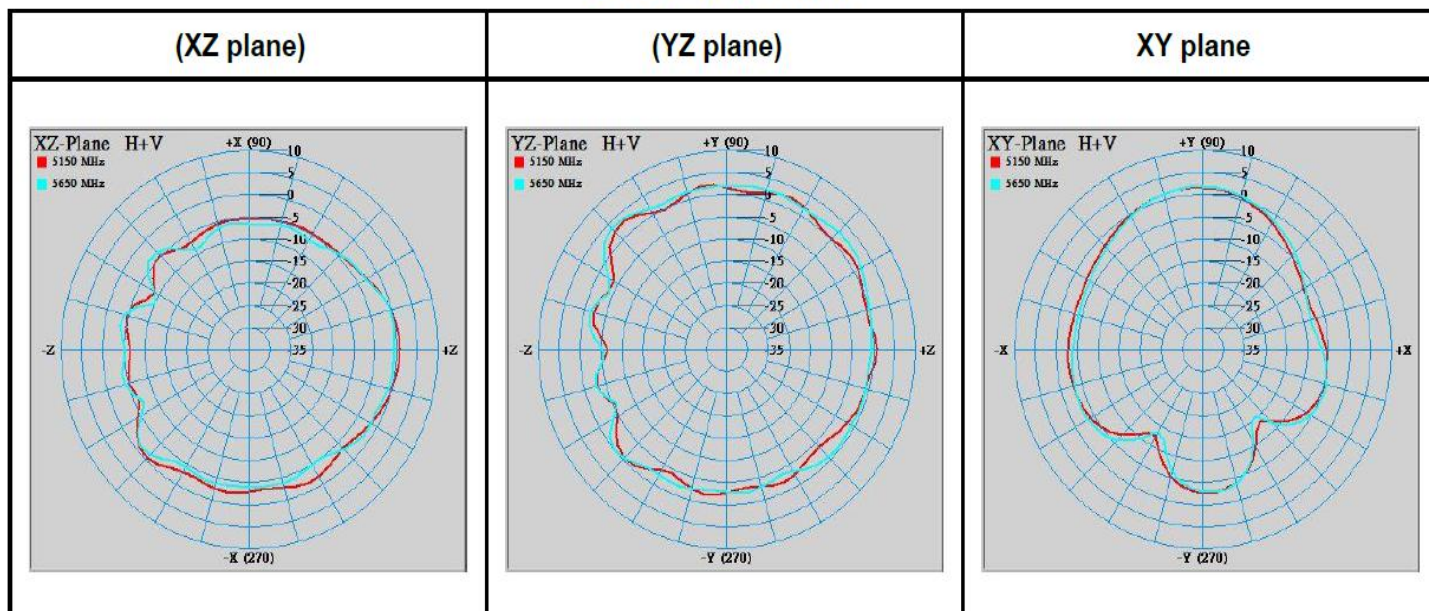


2400~2500 MHz



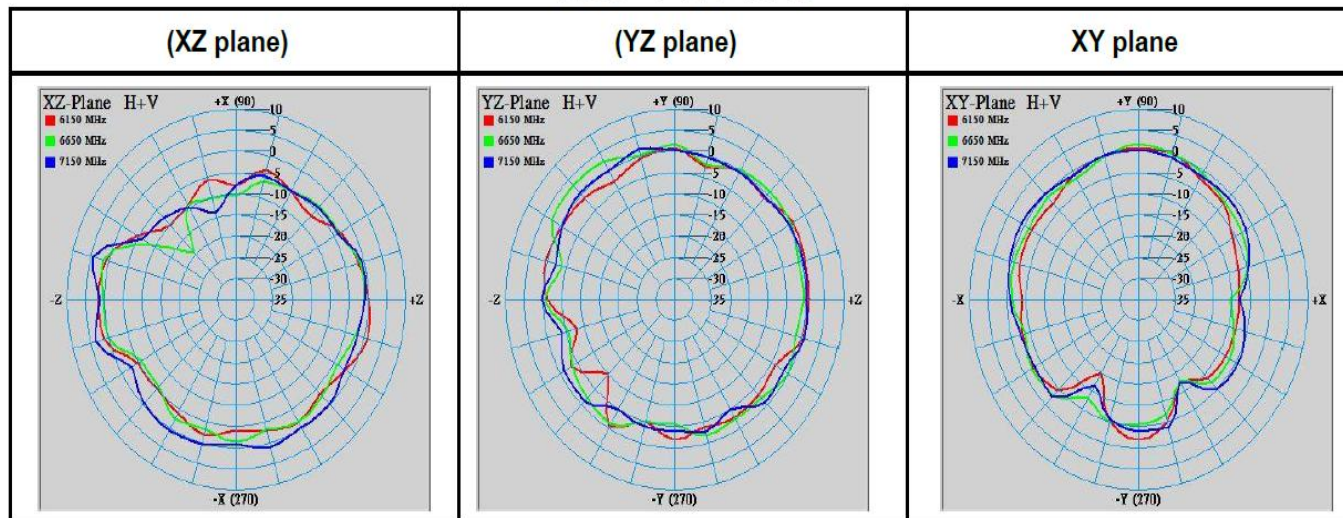
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-0.813	-4.242	0.47	-1.458	-0.015	-3.612
2450	0.399	-4.186	1.244	-1.273	0.007	-3.592
2500	-2.255	-5.074	-0.216	-2.167	-0.955	-4.313

5150~5800 MHz



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	0.798	-3.017	3.189	-0.563	1.719	-3.095
5650	-0.013	-3.657	3.88	0.074	1.877	-3.106

5800~7150 MHz



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
6150	1.783	-2.362	1.674	-1.21	0.772	-3.263
6650	1.578	-3.007	3.215	-0.403	1.728	-2.698
7150	4.366	-0.95	1.779	-0.756	0.999	-2.135

ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



APPROVAL

RALTRON	
DRAWN BY:	EV, June 25, 2025
APPROVED BY:	AR, June 25, 2025
REVISION:	A, Initial Release

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