



ELECTRICAL SPECIFICATION

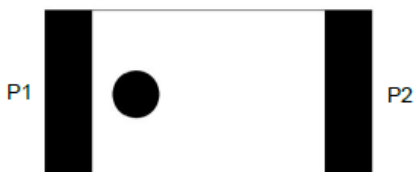
PARAMETERS		VALUE			UNIT
Frequency Range		1559 ~ 1563	1574.4 ~ 1576.4	1598.6 ~ 1606.6	MHz
Gain		1.7	1.6	1.5	dBi
Efficiency, min		49	60	52	%
VSWR, max		3.0			-
Impedance		50			Ω
Matching Component Value	Series 1	3.3			pF
	Shunt 2	2			pF
HBM ESD	Pass on all pins (Base on AECQ200-002)	1			kV
MM ESD	Pass (Base on EIA/JESD22-A115)	200			V
Operating Temperature Range		-40 ~ +85			$^{\circ}\text{C}$
Storage Temperature Range		-40 ~ +85			$^{\circ}\text{C}$

MECHANICAL SPECIFICATION

Figure	Symbol	Dimension (mm)
Top view Side view Bottom view	L	3.20 ± 0.20
	W	1.60 ± 0.20
	T	1.10 ± 0.20
	A	0.50 ± 0.15
	B	0.35 ± 0.10
	C	0.25 ± 0.10

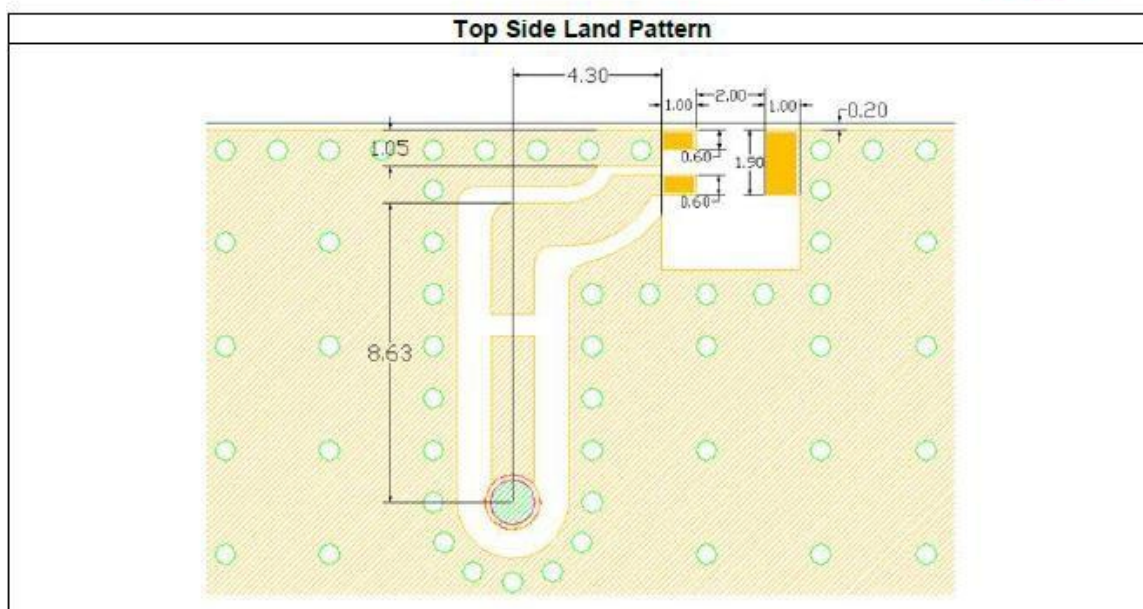
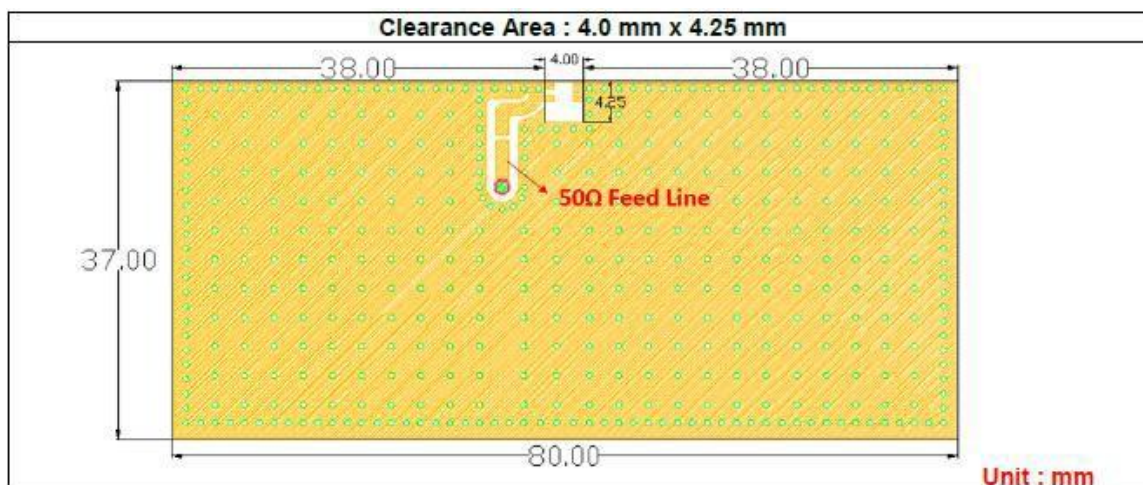
CONSTRUCTION

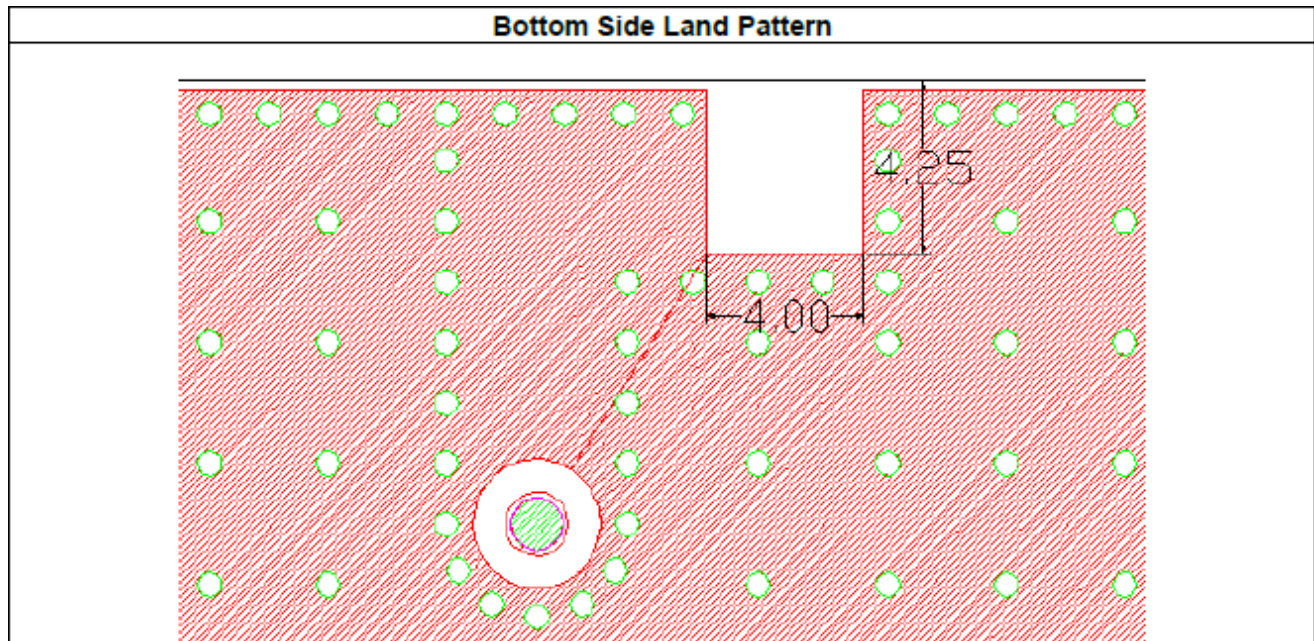
Top view



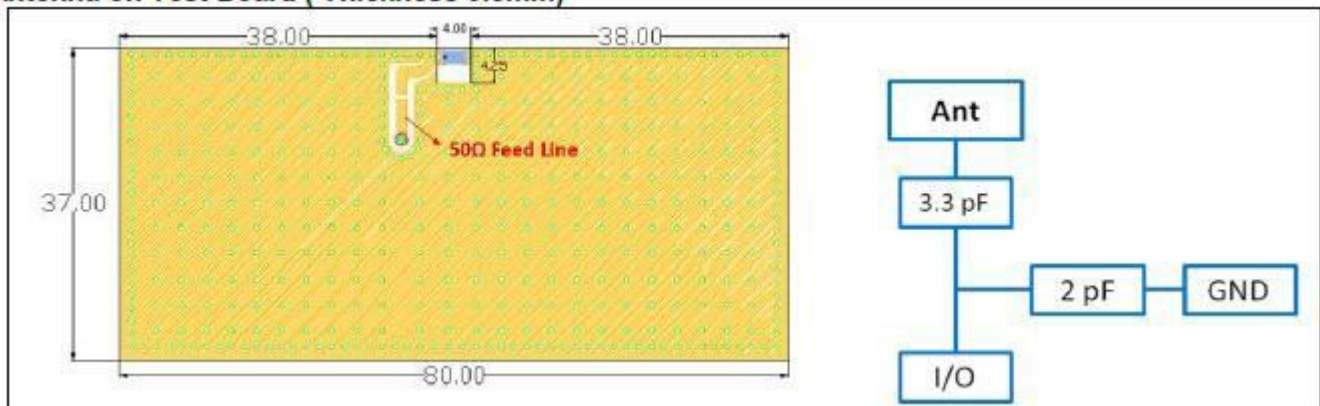
PIN	Connection
1	Feeding
2	Soldering terminal

■ SOLDER LAND PATTERN DESIGN





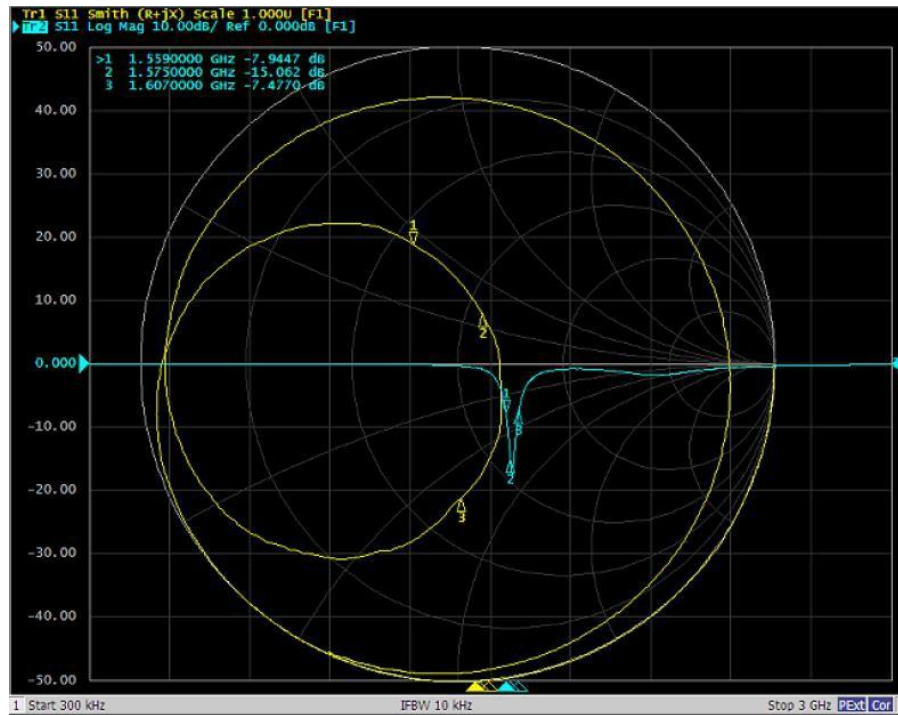
Antenna on Test Board (Thickness 0.8mm)



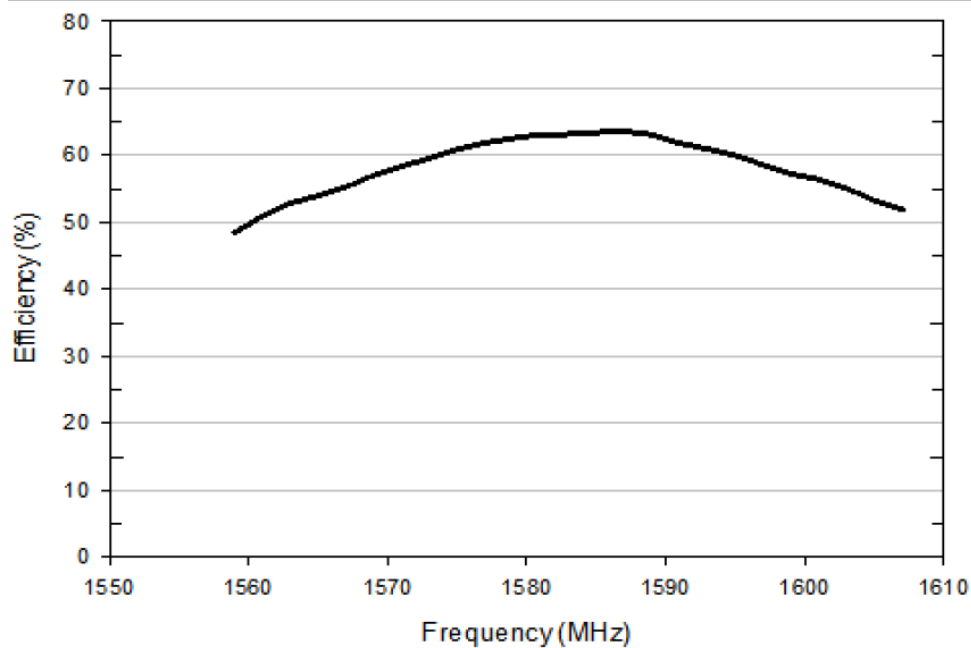
Unit: mm

FREQUENCY CHARACTERISTICS

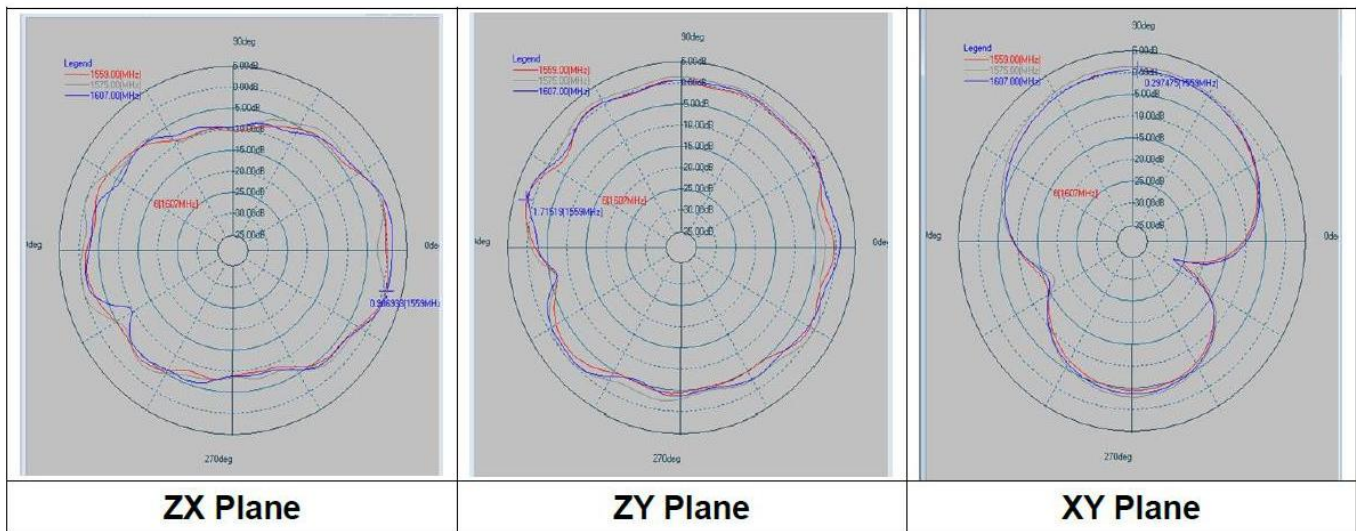
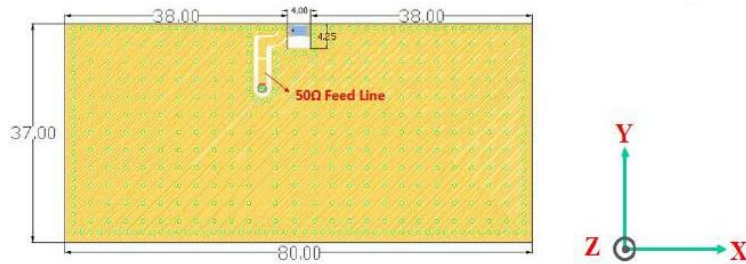
Antenna S11 on Test Board



Antenna Efficiency on Test Board



■ 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]
1559	0.91	-3.77	1.72	-1.49	0.30	-4.00
1575	0.78	-3.24	1.66	-0.62	1.17	-3.14
1607	1.51	-3.55	1.52	-1.03	0.29	-3.84

■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



■ APPROVAL

RALTRON	
DRAWN BY:	AR, October 22, 2021
APPROVED BY:	CP, October 22, 2021
REVISION:	A, Initial Release
	B, AR, June 06, 2022 Added the tape & reel dimension
	C, AR, January 10, 2023 Updated the mechanical specification
	D, EV, June 25, 2025 Removed tape & reel dimensions

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