

ELECTRICAL SPECIFICATION

PARAMETERS		VALUE	UNIT
Working Frequency		433.000	MHz
Gain, typ		2.0	dBi
Return Loss, max		-10	dB
VSWR, max		2.0	-
Polarization		Linear	-
Azimuth Beamwidth		Omni-directional	-
Impedance		50	Ω
Rated Power, max		1	W
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)
	L	12.30 ± 0.25
	W	4.00 ± 0.25
	T	1.60 ± 0.15
	A	0.8 ± 0.15
	B	0.8 ± 0.10

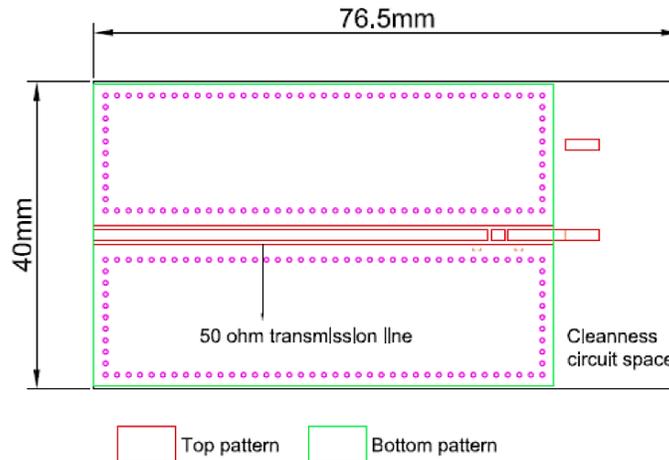
CONSTRUCTION

Top view



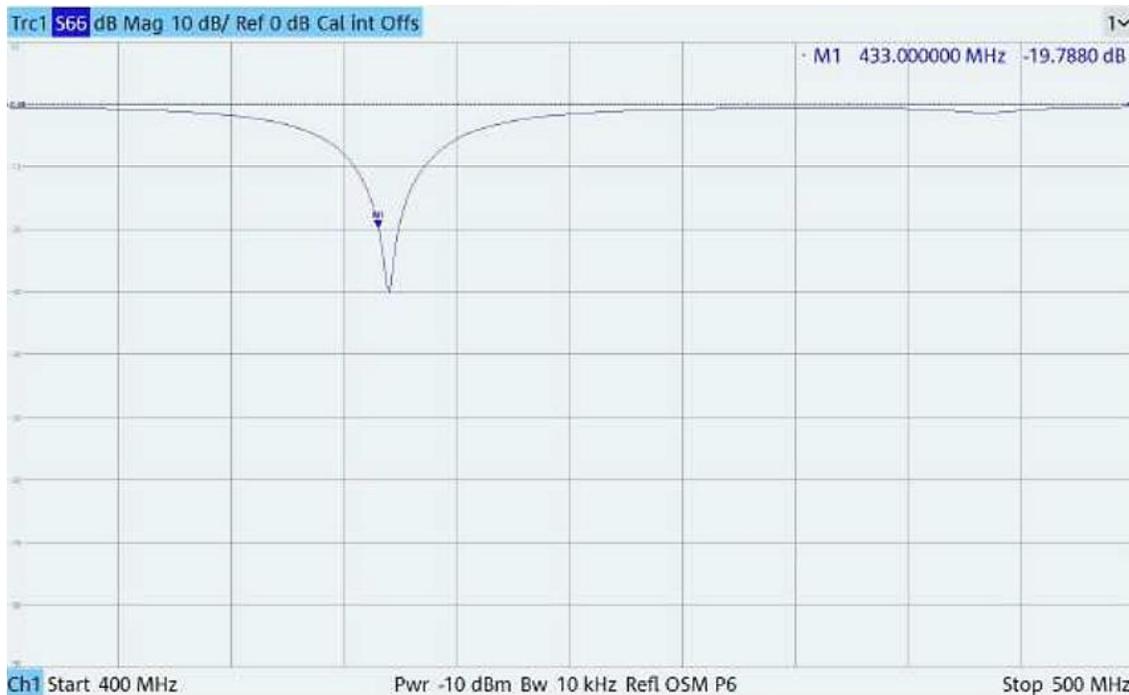
PIN	Connection
P1	Feed termination
P2	Solder termination

■ TEST BOARD

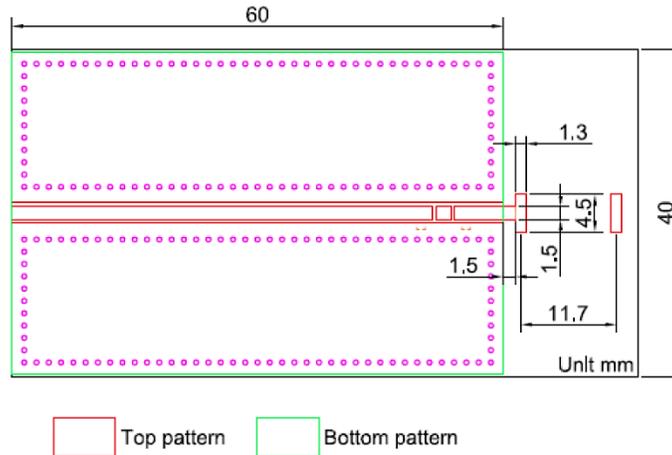


■ FREQUENCY CHARACTERISTICS

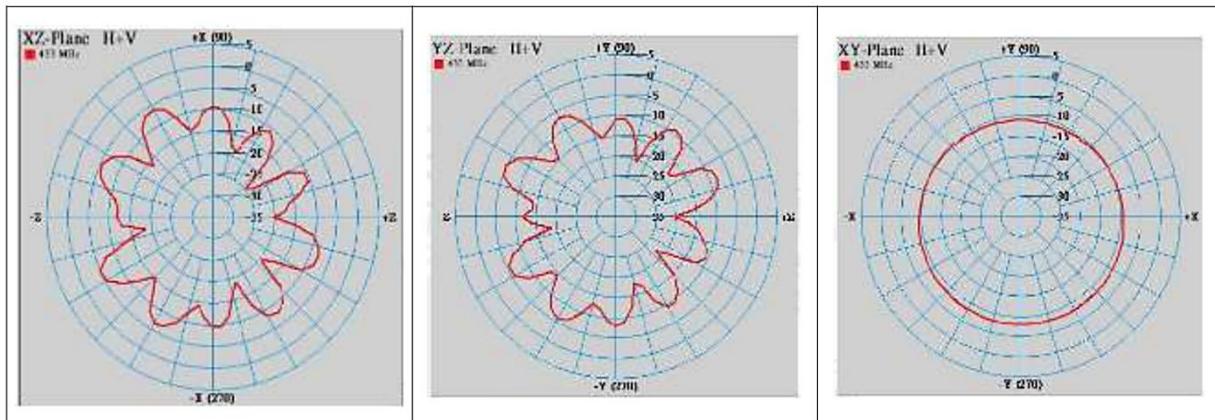
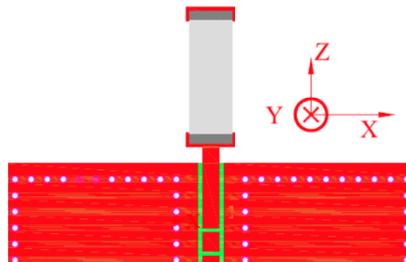
RETURN LOSS



SOLDER LAND PATTERN DESIGN



RADIATION PATTERN



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
433	-5.06	-10.32	-4.94	-10.26	-8.05	-9.32

■ ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant

■ APPROVAL

RALTRON	
DRAWN BY:	EV, March 19, 2026
APPROVED BY:	AR, March 19, 2026
REVISION:	A, Initial Release



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