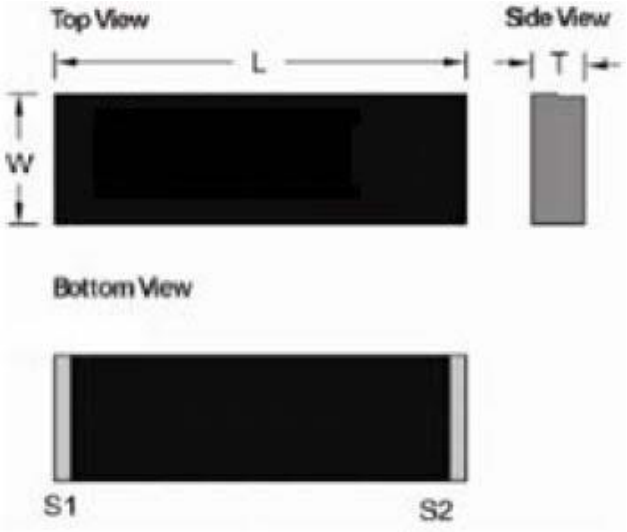
RCA-W1A8-1204-Z-002

ELECTRICAL SPECIFICATION

PARAMETER	VALUE	UNIT
Center Frequency	870	MHz
Bandwidth, typ	30.0	MHz
Azimuth Beamwidth	Omni-directional	-
Peak Gain, typ	1.67	dBi
Return Loss, min	10	dB
Impedance	50	Ω
Polarization	Linear	-
Power, max	1	W
Operating Temperature Range	-40 ~ +85	˚C

MECHANICAL SPECIFICATION

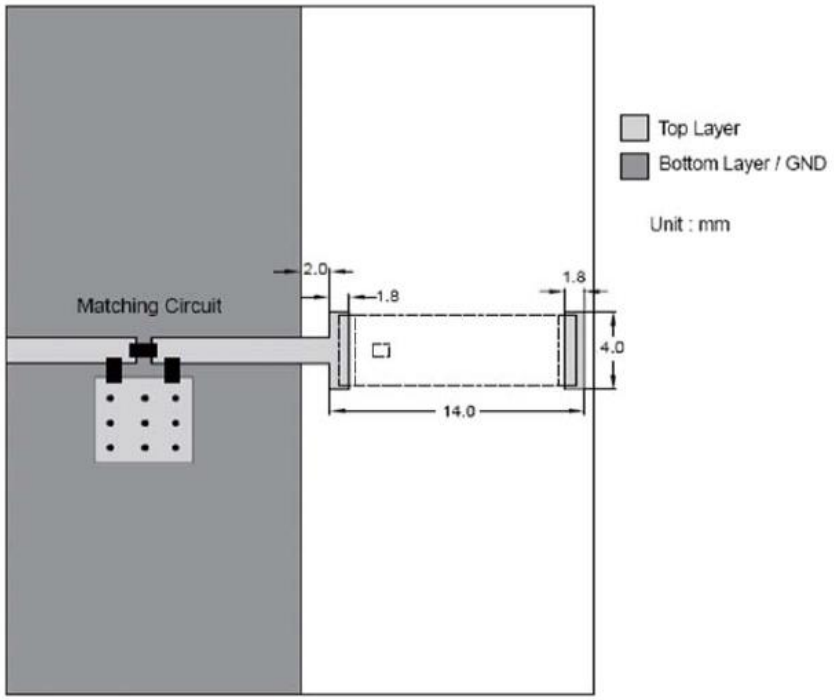


Unit: mm

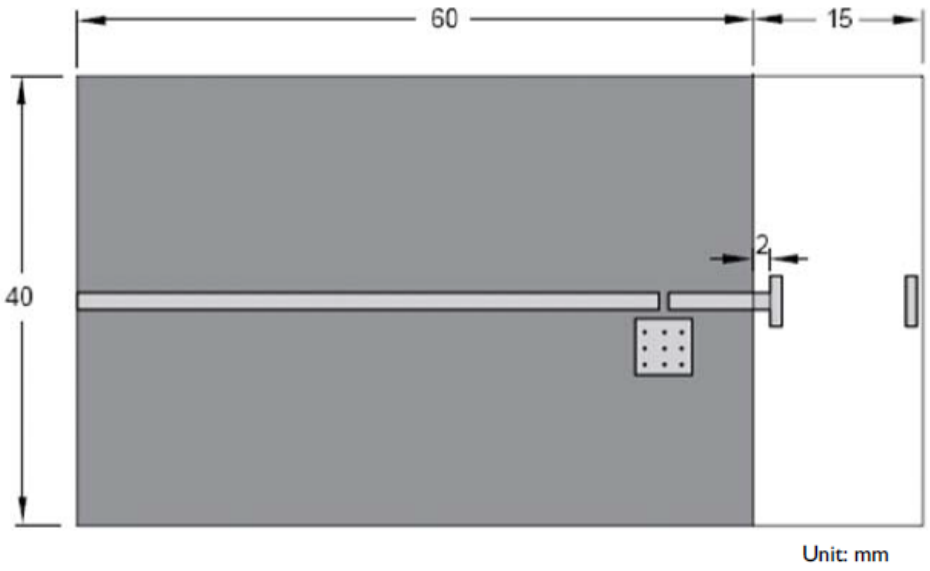
	L	W	T
Dimension (mm)	12.20 ± 0.20	4.00 ± 0.20	1.60 ± 0.20

	S_1	S_2
Connection	Feeding	Soldering

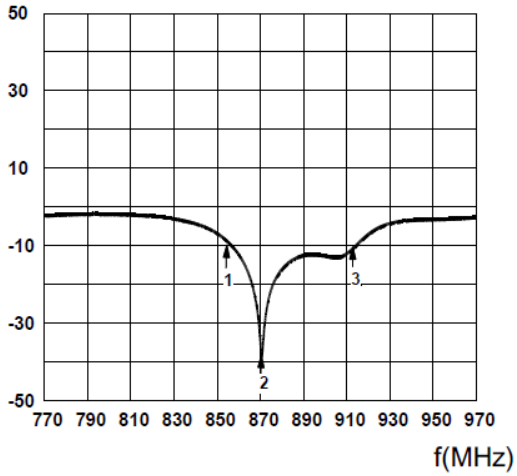
RECOMMENDED SOLDERING PATTERN



EVALUATION BOARD



FREQUENCY CHARACTERISTICS



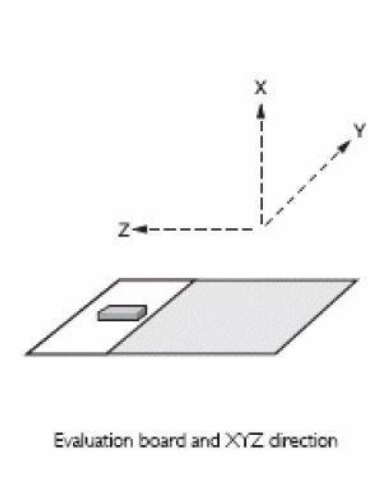
Marker data

1.856MHz,-10dB

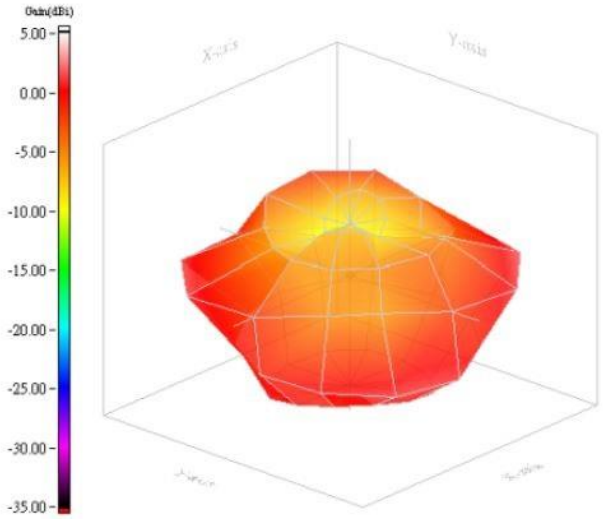
2.870MHz,-34dB

3.914MHz,-10dB

RADIATION PATTERN



Evaluation board and XYZ direction



Max gain= 1.67dBi, at (90, 150)
MEG (mean effective gain)= -2.69dBi
Directivity(dB)= 3.87
Efficiency= -2.20dB, 60.30%

APPROVAL

RALTRON	
DRAWN BY:	AR, May 20, 2019
APPROVED BY:	CP, May 20, 2019
REVISION:	A, Initial Release