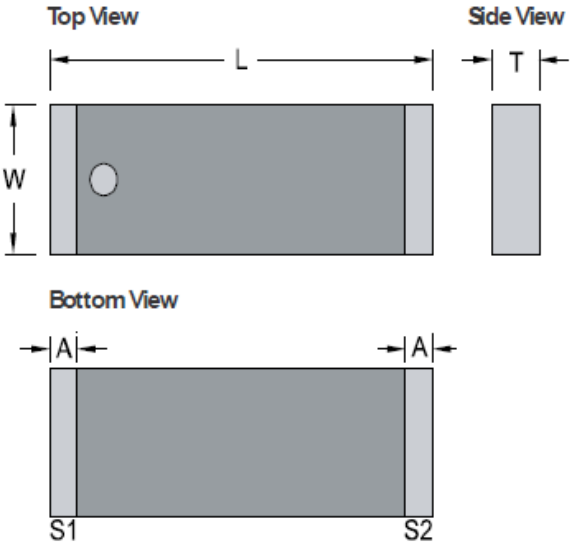
RCA-W1A0-1204-Z-002

ELECTRICAL SPECIFICATION

PARAMETERS	VALUE	UNIT
Center Frequency	433	MHz
Bandwidth, typ	28	MHz
Peak Gain, typ	0.83	dBi
Return Loss, min	6.5	dB
Polarization	Linear	-
Azimuth Beamwidth	Omni-directional	-
Power, max	1	W
Impedance	50	Ω
Operating Temperature Range	-40 ~ +105	˚C
Termination	Ni / Sn (Environmentally-Friendly Leadless)	-

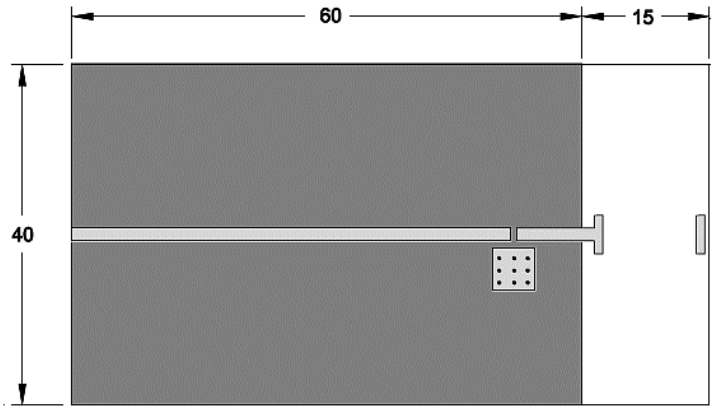
MECHANICAL SPECIFICATION



	L	W	T	A
Dimension (mm)	12.00 ± 0.20	4.00 ± 0.20	1.50 ± 0.20	0.85 ± 0.20

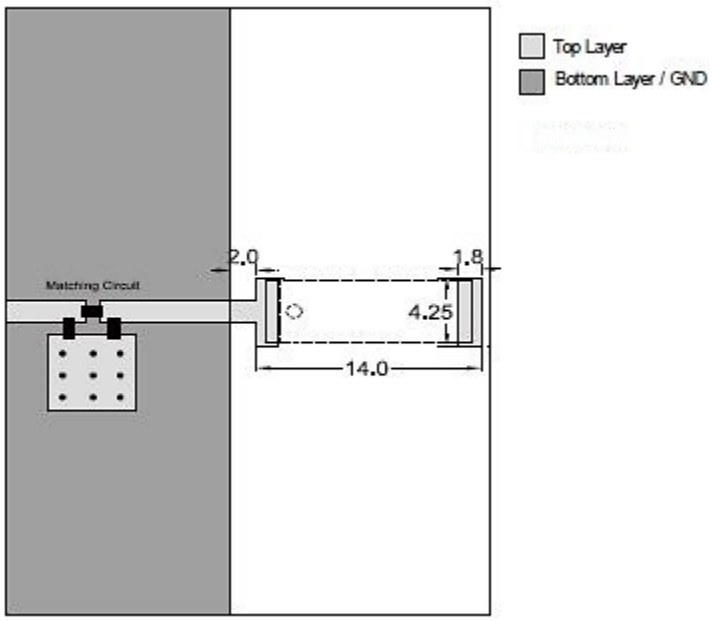
	S_1	S_2
Connection	Feeding	Soldering

EVALUATION BOARD



Unit: mm

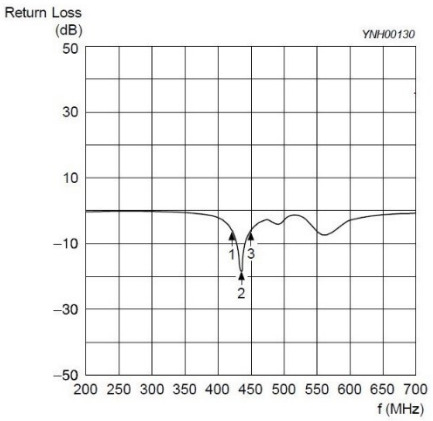
RECOMMENDED SOLDERING PATTERN



Unit: mm

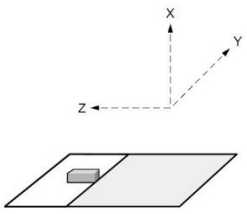
FREQUENCY CHARACTERISTICS

Return Loss

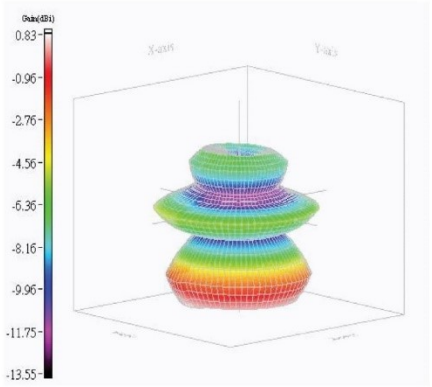


Marker data
1. 420MHz, -6.5dB
2. 433MHz, -17dB
3. 448MHz, -6.5dB

RADIATION PATTERN



Evaluation board and XYZ direction



Frequency= 433 MHz
Max gain = 0.83 dBi, at (150,330)

MEG (mean effective gain)= -4.84 dBi
Directivity (dB) = 6.41
Efficiency = -5.57dB, 27.72 %

APPROVAL

RALTRON	
DRAWN BY:	AR, August 15, 2018
APPROVED BY:	CP, August 15, 2018
REVISION:	A, Initial Release