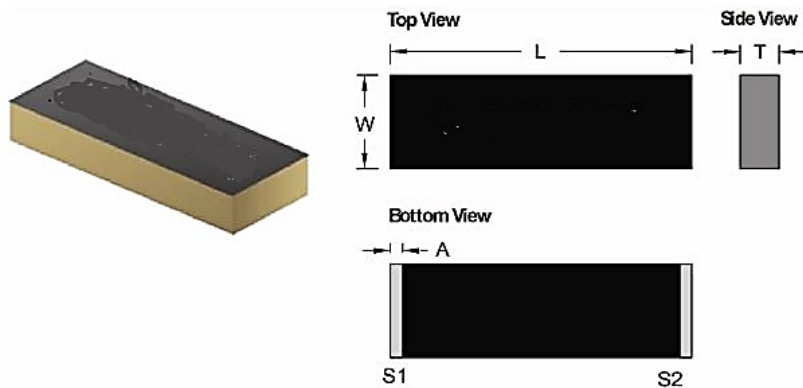


### ELECTRICAL SPECIFICATION

PARAMETERS	VALUE	UNIT
Center Frequency	433	MHz
Bandwidth, typ	28	MHz
Peak Gain, typ	0.79	dBi
Return Loss, min	6.5	dB
Polarization	Linear	-
Azimuth Beamwidth	Omni-directional	-
Power, max	1	W
Impedance	50	$\Omega$
Operating Temperature Range	-40 ~ +105	$^{\circ}\text{C}$

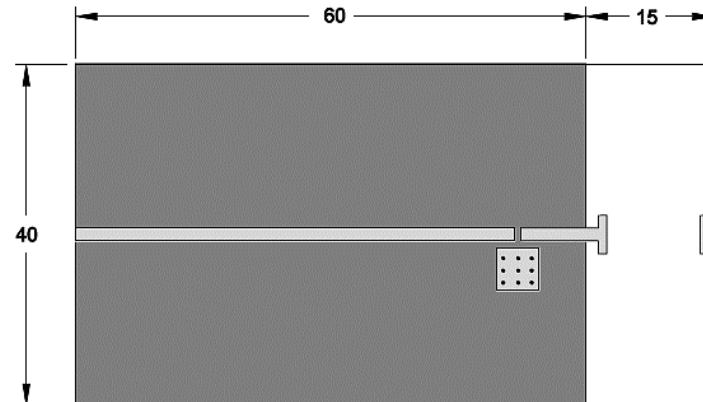
### MECHANICAL SPECIFICATION



	L	W	T	A
Dimension (mm)	$12.30 \pm 0.20$	$4.00 \pm 0.20$	$1.60 \pm 0.20$	$0.50 \pm 0.20$

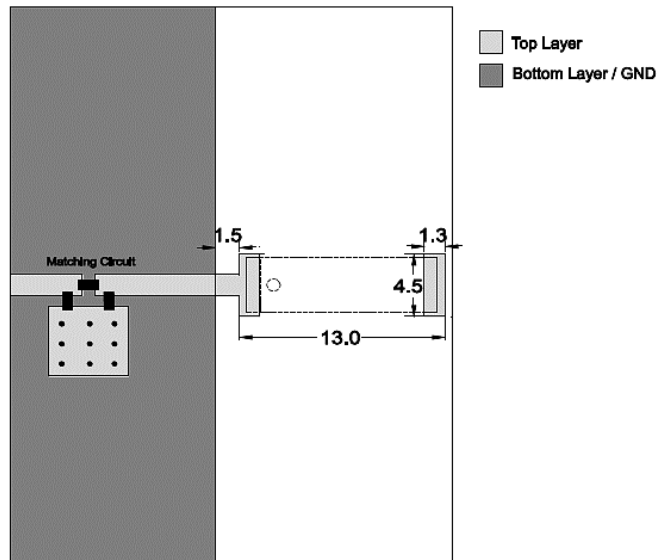
	S <sub>1</sub>	S <sub>2</sub>
Connection	Feeding	Soldering

#### EVALUATION BOARD



Unit: mm

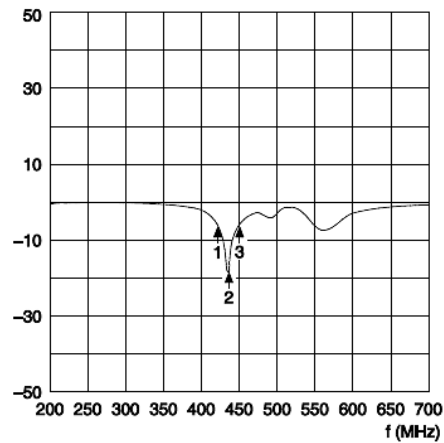
#### RECOMMENDED SOLDERING PATTERN



Unit: mm

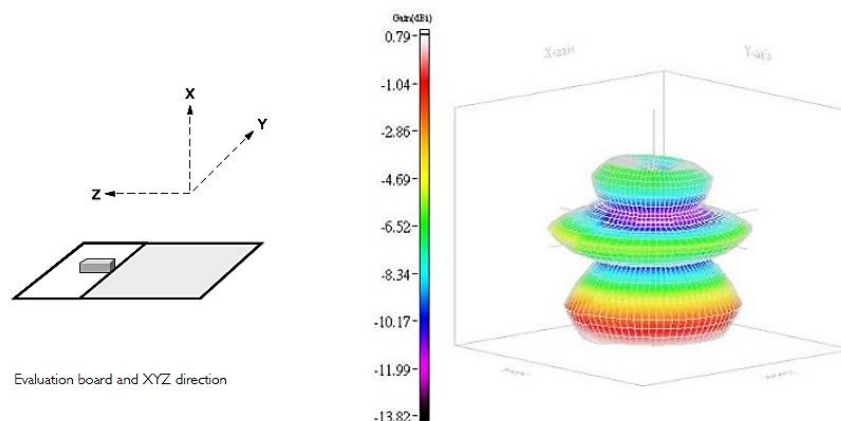
#### FREQUENCY CHARACTERISTICS

##### Return Loss



Marker data  
 1. 419MHz -6.5dB  
 2. 433MHz -16dB  
 3. 447MHz -6.5dB

#### RADIATION PATTERN



Frequency = 433 MHz  
 Max gain = 0.79 dBi, at (150,330)  
 MEG (mean effective gain) = -4.84 dBi  
 Directivity (dB) = 6.35  
 Efficiency = -5.56dB, 27.79 %

• **APPROVAL**

<b>RALTRON</b>	
DRAWN BY:	LP, June 08, 2017
APPROVED BY:	JL, June 08, 2017
REVISION:	A, Initial Release

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