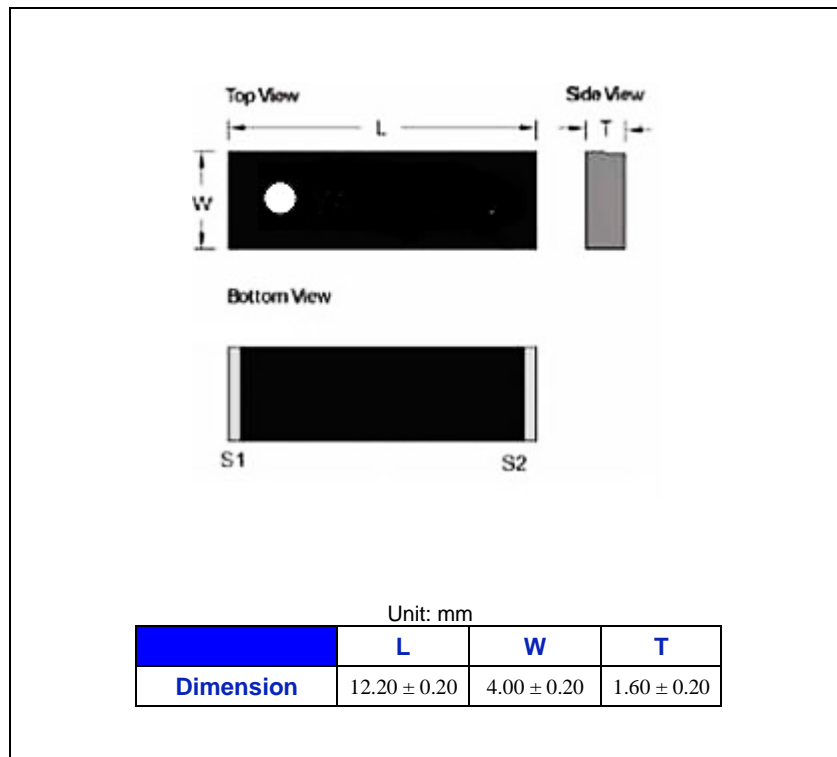


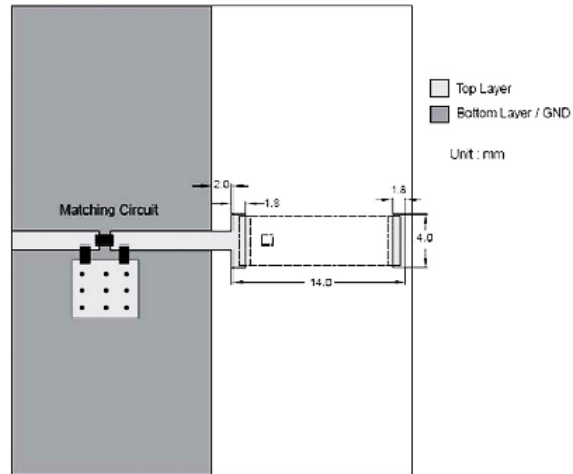
#### ELECTRICAL SPECIFICATION

PARAMETER	SPECIFICATIONS	UNIT
Center Frequency	915.0	MHz
Bandwidth, typ	30.0	MHz
Azimuth Beamwidth	Omni-directional	--
Peak Gain, typ	1.59	dBi
Return Loss, min	10	dB
Impedance	50	$\Omega$
Polarization	Linear	--
Power, max	1	W
Operating Temperature Range	-40 ~ +85	$^{\circ}\text{C}$

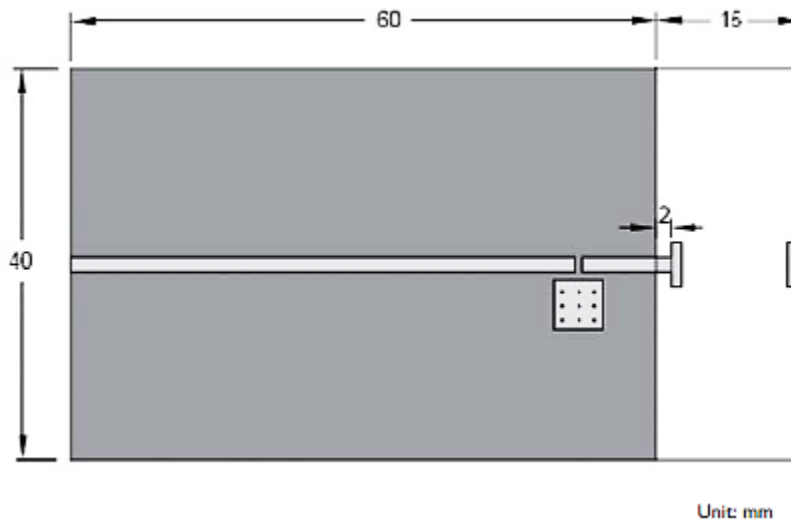
#### MECHANICAL SPECIFICATION



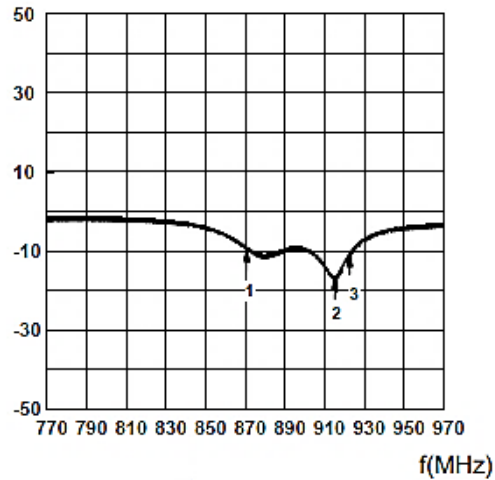
#### RECOMMENDED SOLDERING PATTERN



#### EVALUATION BOARD



#### FREQUENCY CHARACTERISTICS



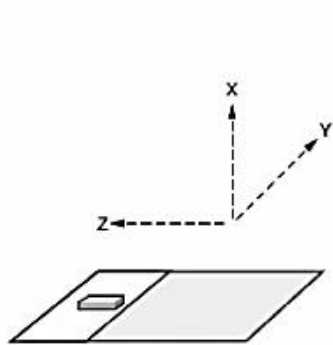
Marker data

1.870MHz,-10dB

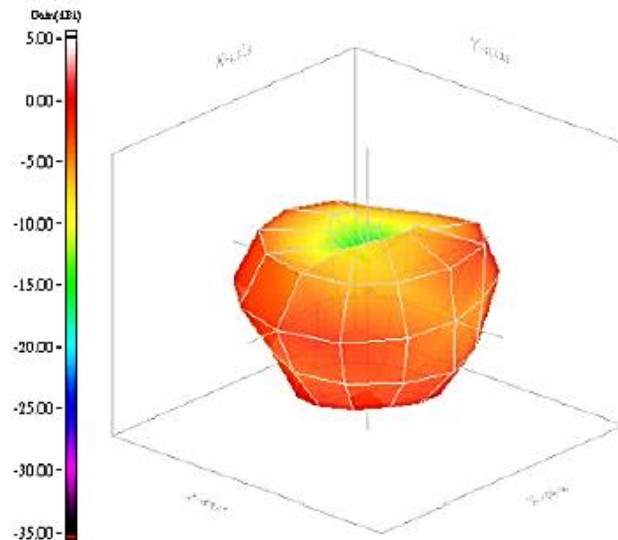
2.915MHz,-16.73dB

3.926MHz,-10dB

#### RADIATION PATTERN

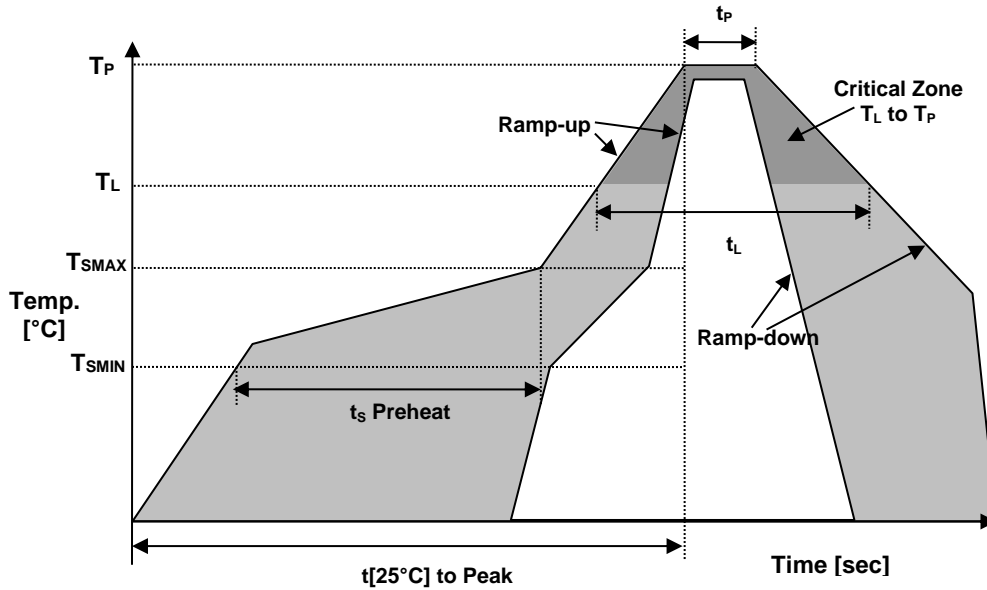


Evaluation board and XYZ direction



Max gain= 1.59dBi, at (150, 180)  
MEG (mean effective gain)= -3.56dBi  
Directivity(dB)= 4.57  
Efficiency= -2.98dB, 50.30%

### REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	150°C
Temperature Max Preheat	$T_{SMAX}$	200°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	60-180 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	250°C
Ramp-up rate	$R_{UP}$	3°C/sec max.
Ramp-down rate	$R_{DOWN}$	6°C/sec max.
Time within 5°C of Peak Temperature	$t_p$	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	$t_L$	60-150 sec.

### ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	COMPLIANT
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT



### APPROVAL

RALTRON	
DRAWN BY:	LP, July 05, 2017
APPROVED BY:	JL, July 05, 2017
REVISION:	A, Initial Release