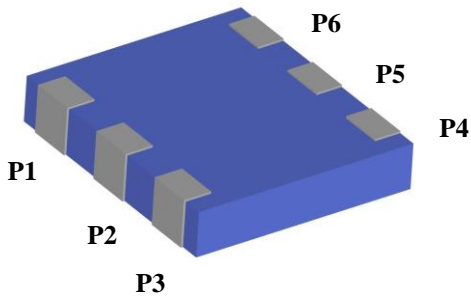
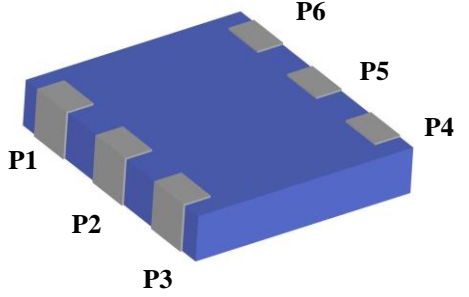


■ ELECTRICAL SPECIFICATION

Item	Specification		
Central frequency	2.45GHz	5.25GHz	5.85GHz
Bandwidth (Typical)	100 MHz	200 MHz	100 MHz
Peak Gain (Typical)	4 dBi	4 dBi	4 dBi
VSWR	2 max.		
Polarization	Linear		
Impedance	50Ω		

■ MECHANICAL SPECIFICATION

**CONSTRUCTION**

RCA-6050L0-TR	RCA-6050L1-TR	PIN	Connection
		P1	GND
		P2	RF Feeding
		P3	GND
		P4	Soldering
		P5	Soldering
		P6	Soldering

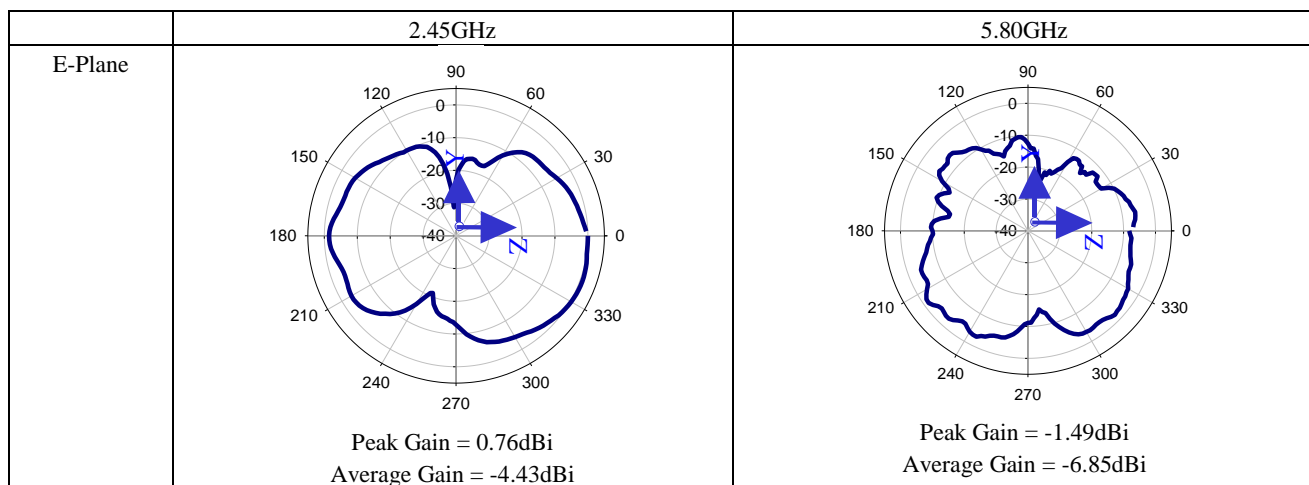
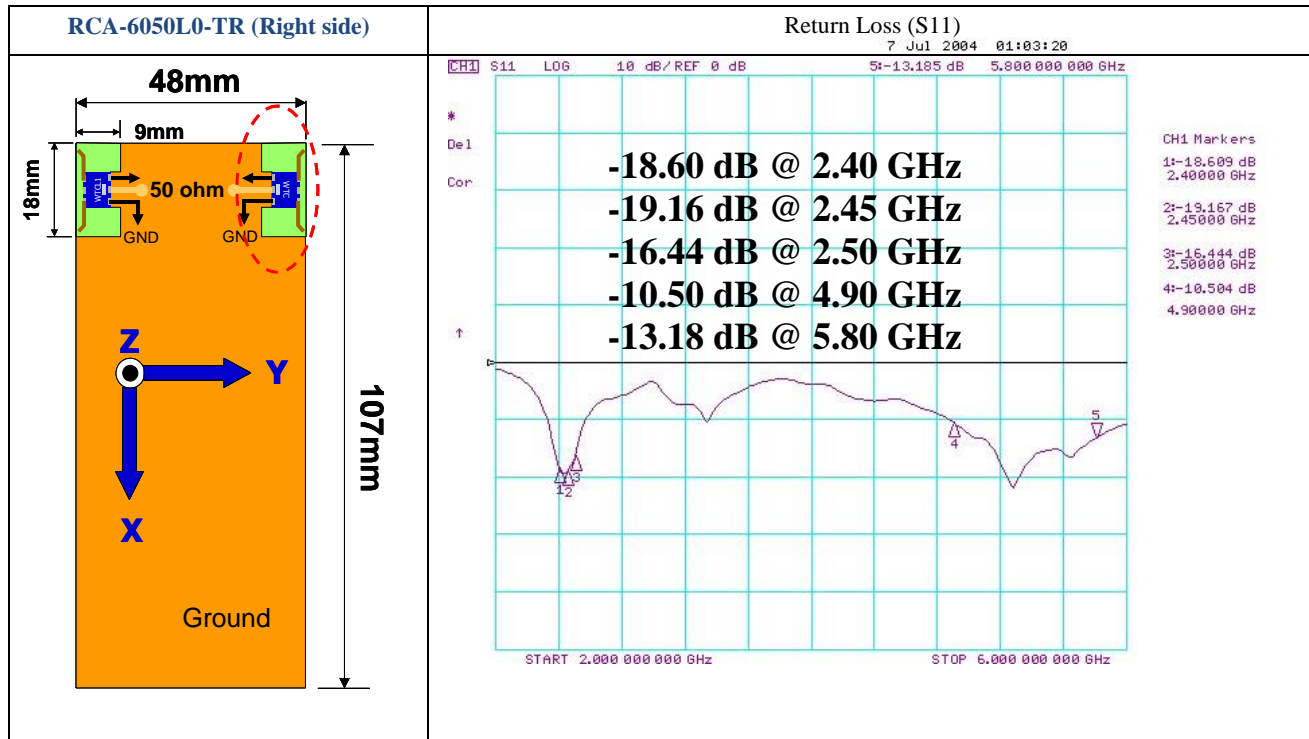
### DIMENSIONS

Figure	Symbol	Dimension (mm)
<p>RCA-6050L0-TR</p> <p>The diagram shows a top view of the chip antenna with dimensions L (length), W (width), and T (thickness). A side view shows the thickness T and the layer structure with dimensions A, B, C, and D.</p>	L	$5.90 \pm 0.30$
	W	$5.10 \pm 0.30$
	T	$1.10 \pm 0.10$
	A	$0.45 \pm 0.20$
<p>RCA-6050L1-TR</p> <p>The diagram shows a top view of the chip antenna with dimensions L (length), W (width), and T (thickness). A side view shows the thickness T and the layer structure with dimensions A, B, C, and D.</p>	B	$1.00 \pm 0.20$
	C	$1.00 \pm 0.20$
	D	$2.00 \pm 0.20$

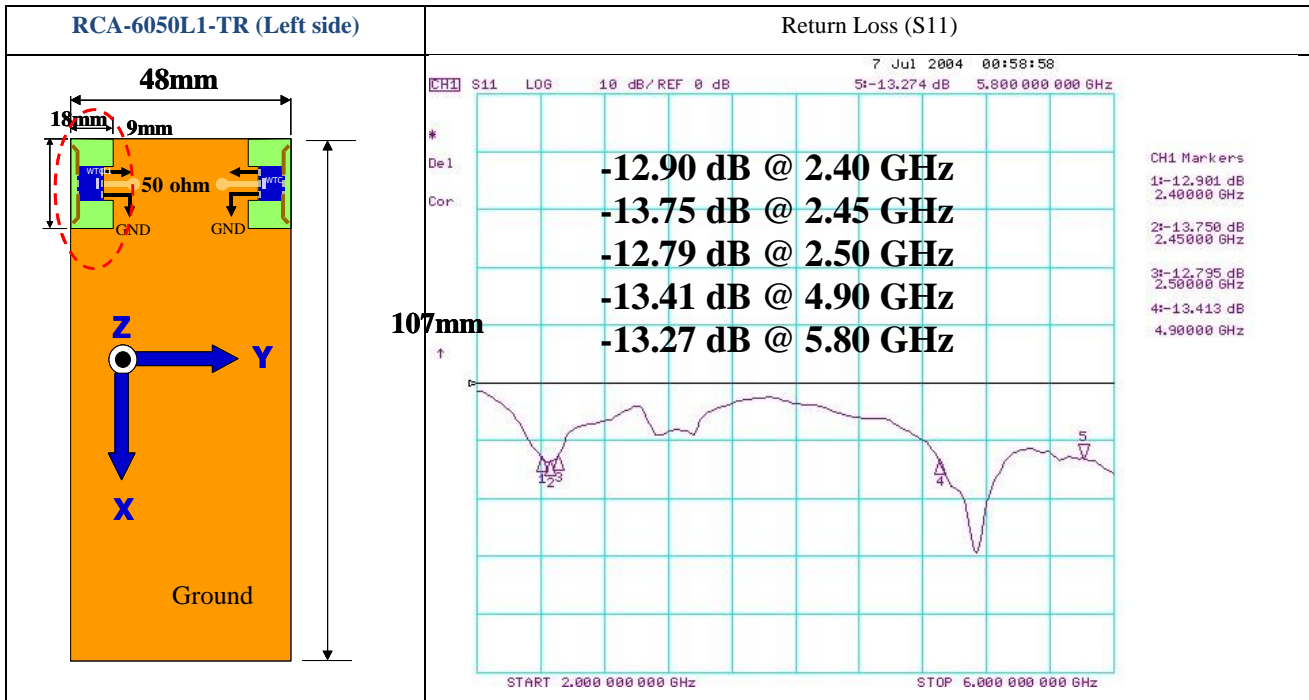
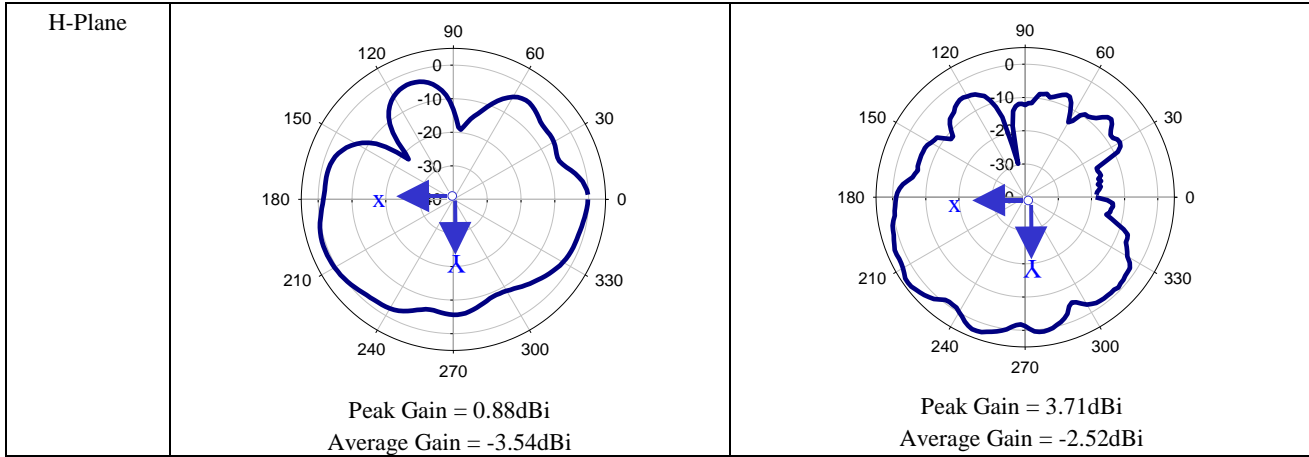


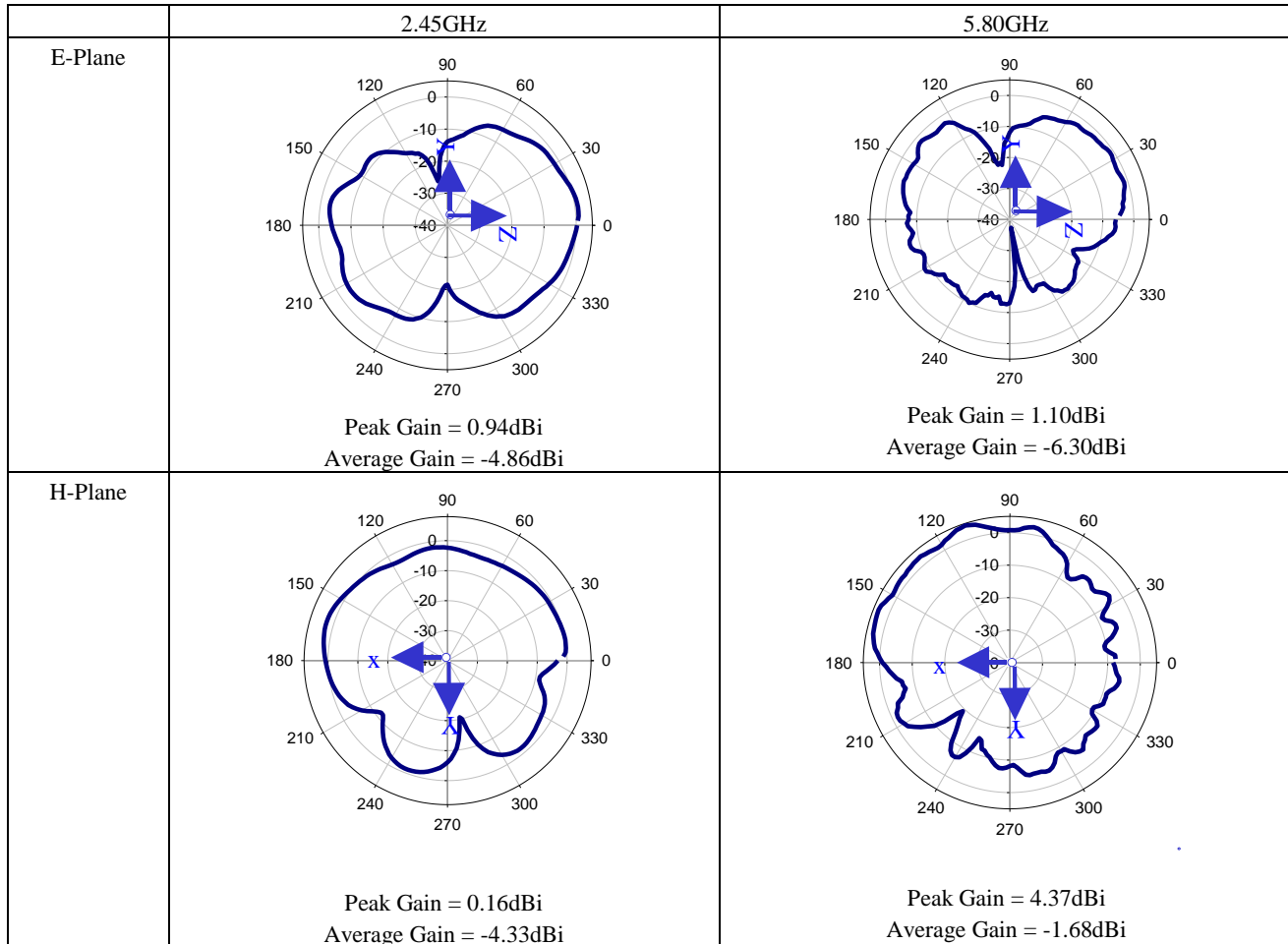
### RADIATION PATTERN

Radiation Pattern and Gain were dependent on measurement board design. The specification of RCA-6050L0-TR & RCA-6050L1-TR Combo antenna were measured based on the PCB size and installation position with housing was included.



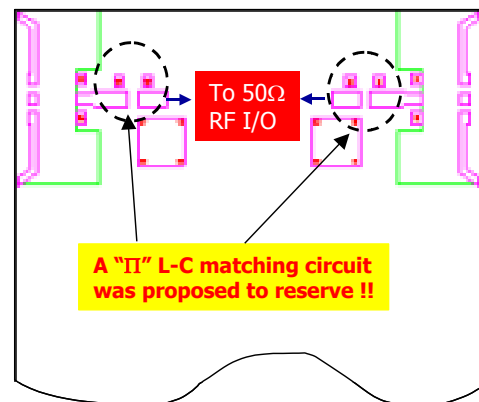
### RCA-6050L0-TR RCA-6050L1-TR





The installation for the two antennas could be arranged as RCA-6050L0-TR located on RIGHT side and RCA-6050L1-TR located on LEFT side to have best antenna coverage.

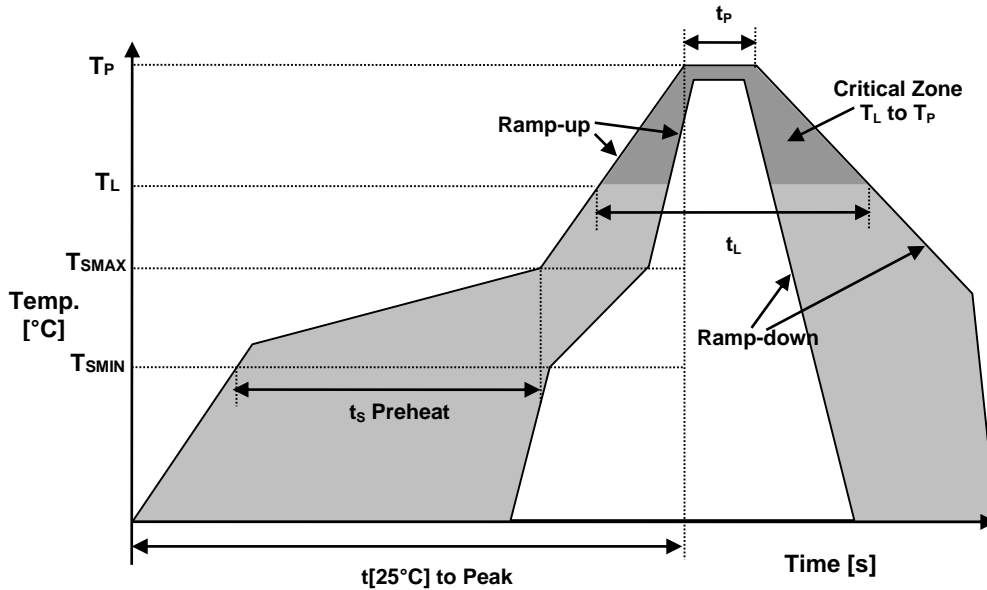
The performance of embedded ceramic antenna is sensitive influenced by customer's ground area, PC board size, thickness, material, mechanical design and material of housing for end product. The performance is guaranteed based on the installation as shown in above, to reserve a "IT" network is suggested for final matching if the housing included.



the

the

### 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 s
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	250°C
Ramp-up rate	$R_{UP}$	3°C/s max.
Ramp-down rate	$R_{DOWN}$	6°C/s max.
Time within 5°C of Peak Temperature	$t_p$	10 s
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 s
Time	$t_L$	60-150 s

### ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS2	6/6 COMPLIANT & LEAD FREE
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au



May, 2016