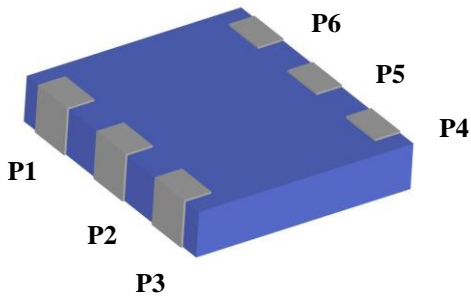
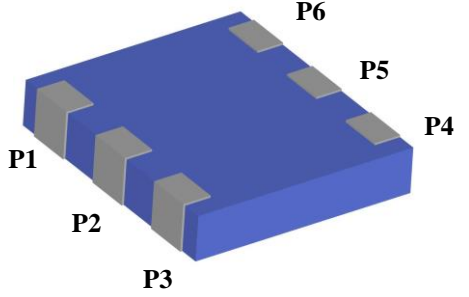


■ ELECTRICAL SPECIFICATION

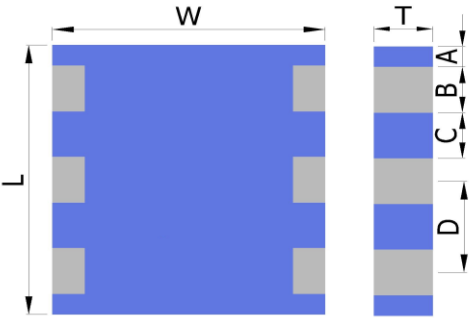
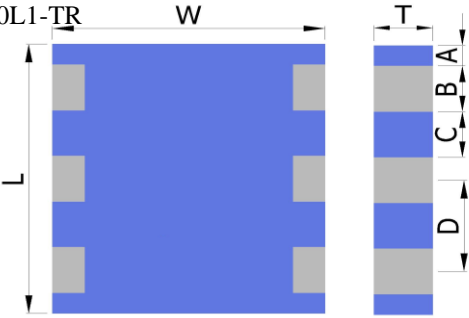
Item	Specification		
Central frequency	2.45GHz	5.25GHz	5.85GHz
Bandwidth (Typical)	100 MHz	200 MHz	100 MHz
Peak Gain (Typical)	4 dBi	4 dBi	4 dBi
VSWR	2 max.		
Polarization	Linear		
Impedance	50Ω		

■ MECHANICAL SPECIFICATION

CONSTRUCTION

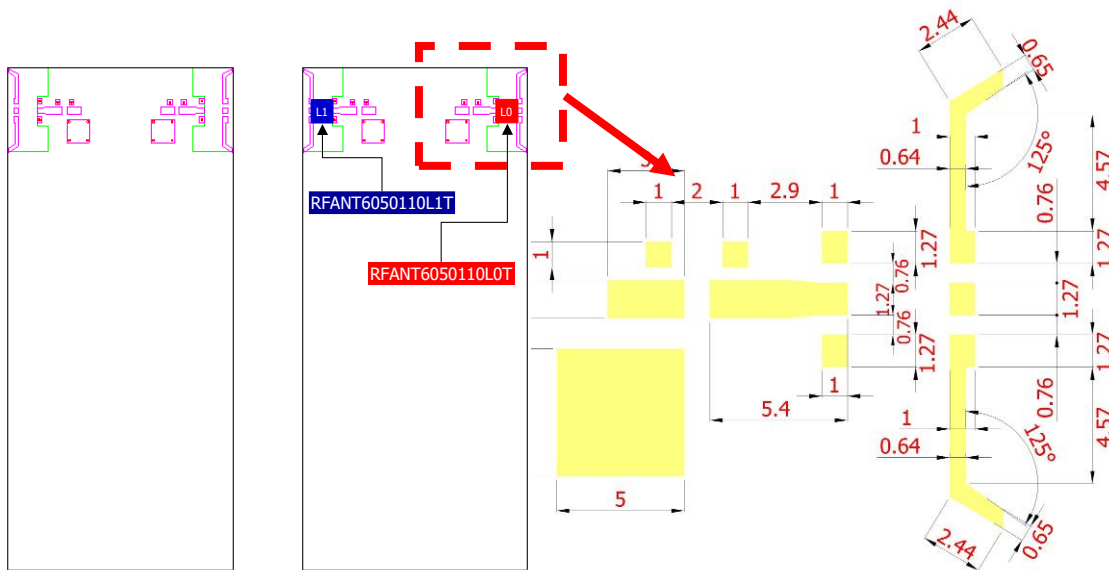
RCA-6050L0-TR	RCA-6050L1-TR	PIN	Connection
		P1	GND
		P2	RF Feeding
		P3	GND
		P4	Soldering
		P5	Soldering
		P6	Soldering

DIMENSIONS

Figure	Symbol	Dimension (mm)
<p>RCA-6050L0-TR</p> 	L	5.90 ± 0.30
	W	5.10 ± 0.30
	T	1.10 ± 0.10
	A	0.45 ± 0.20
<p>RCA-6050L1-TR</p> 	B	1.00 ± 0.20
	C	1.00 ± 0.20
	D	2.00 ± 0.20

SOLDERN PATTERN

RCA-6050L0-TR on the RIGHT side and RCA6050L1-TR on the LEFT side to have the best coverage

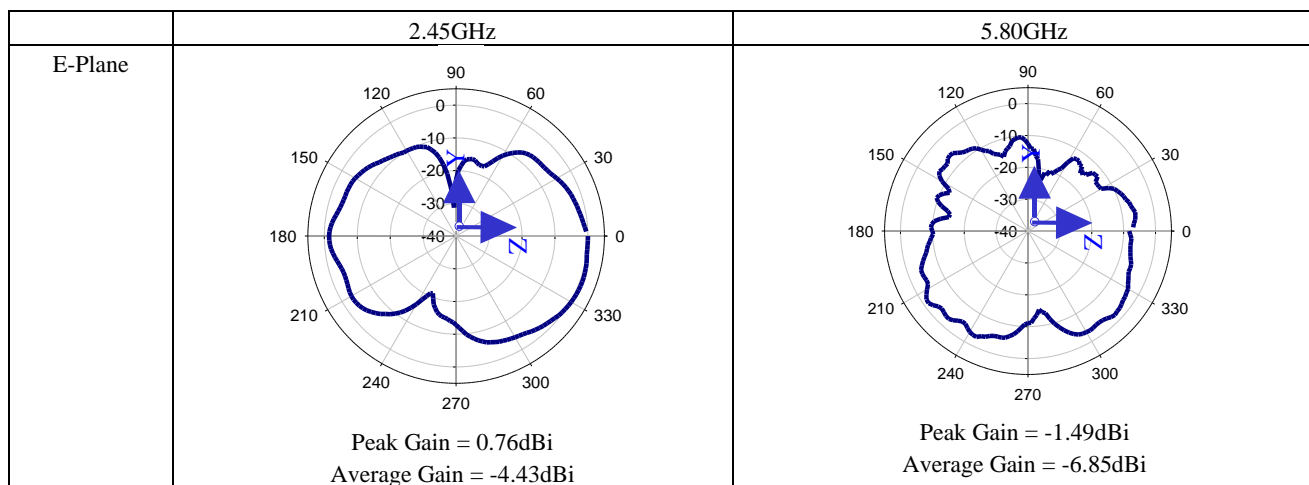
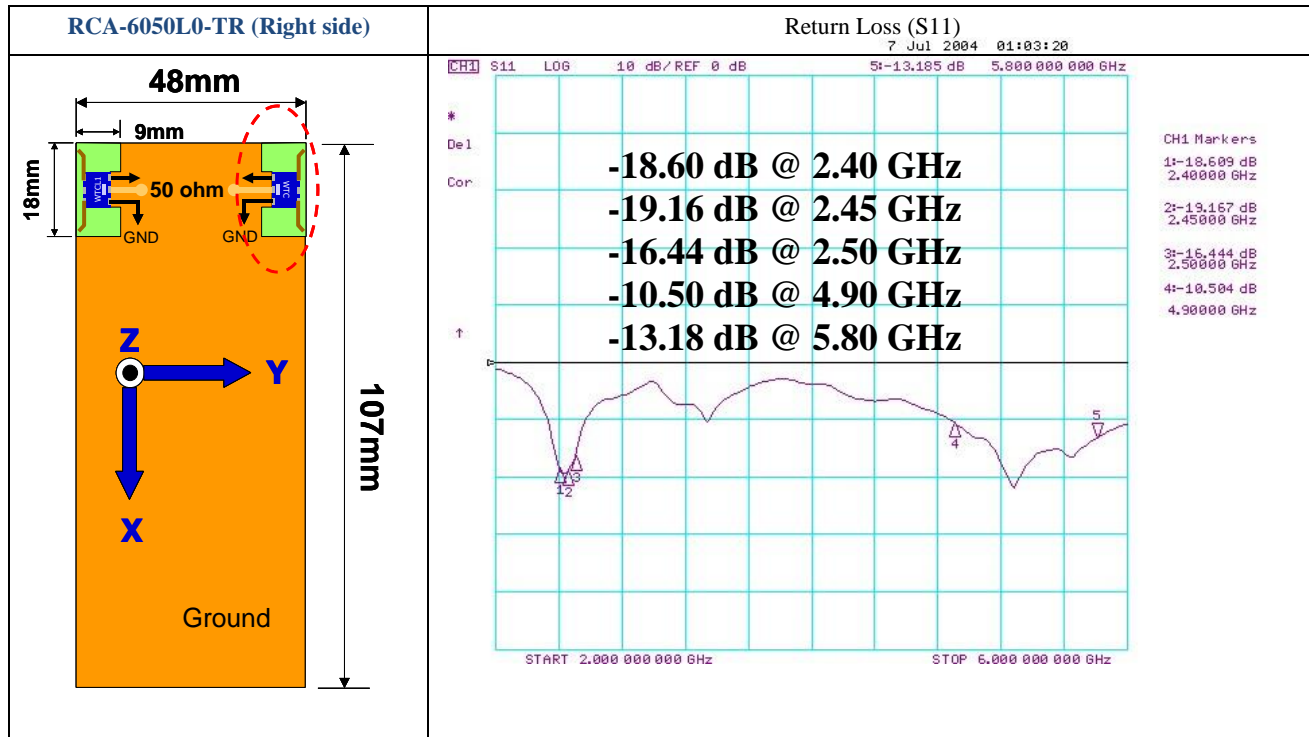


RCA-6050L0-TR RCA-6050L1-TR

RADIATION PATTERN

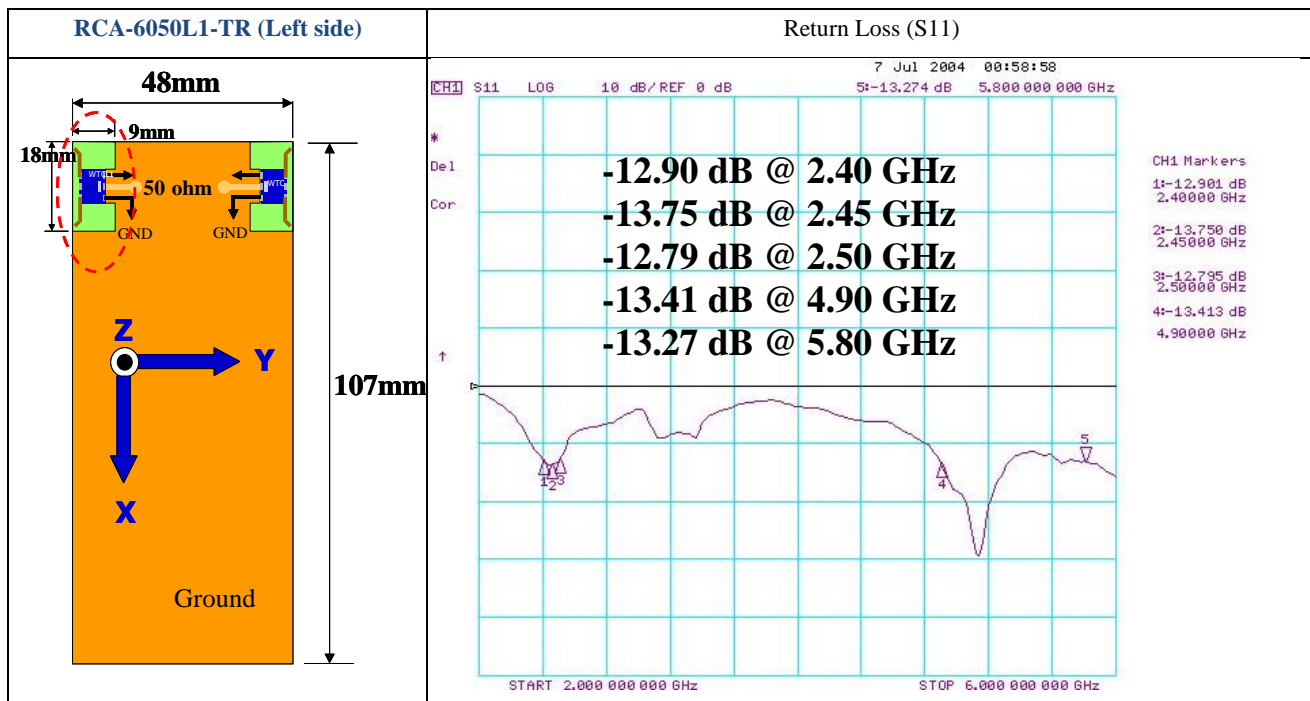
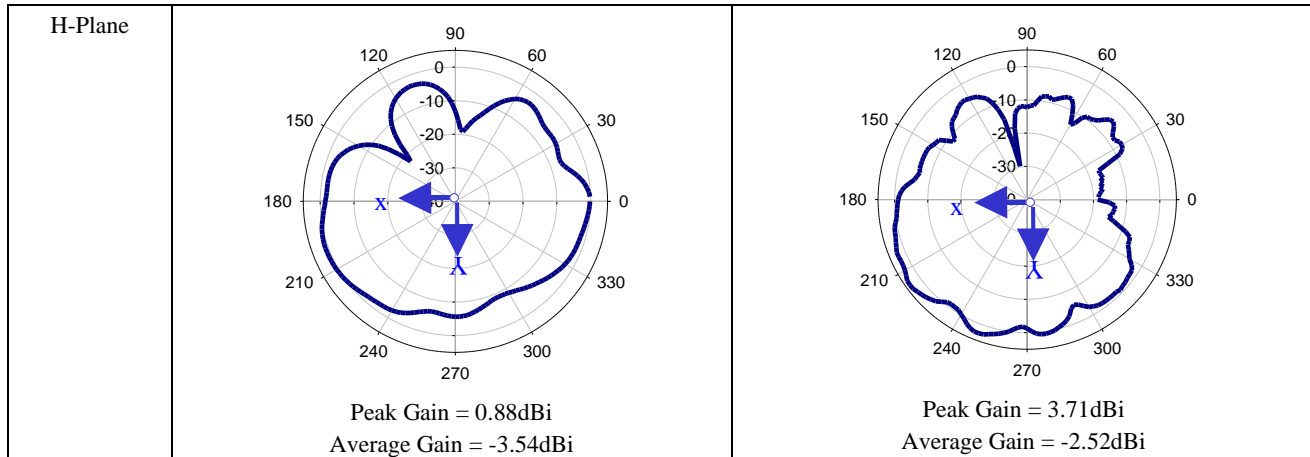
Radiation Pattern and Gain were dependent on measurement board design. The specification of RCA-6050L0-TR & RCA-6050L1-TR

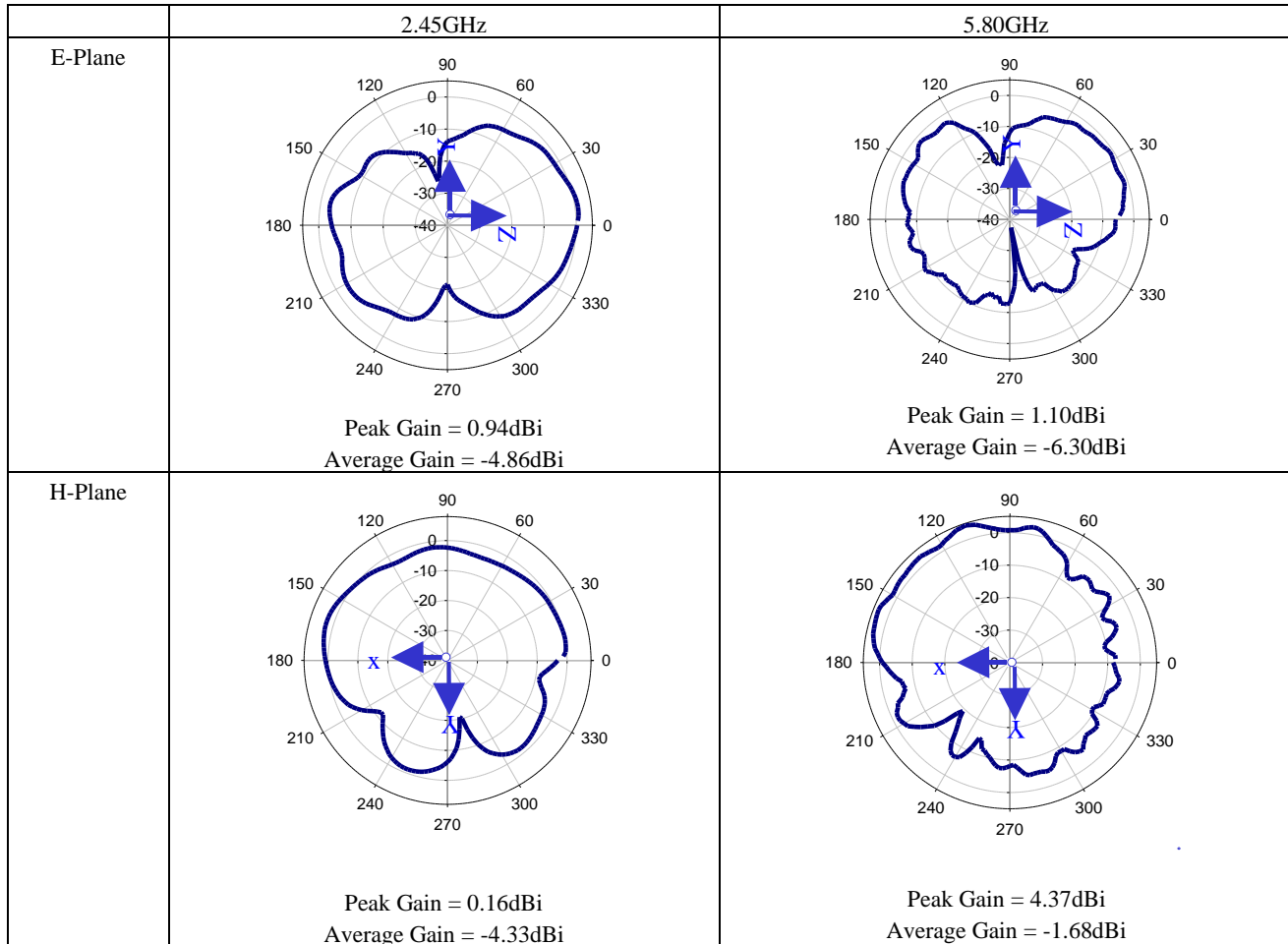
Combo antenna were measured based on the PCB size and installation position with housing was included.



RCA-6050L0-TR

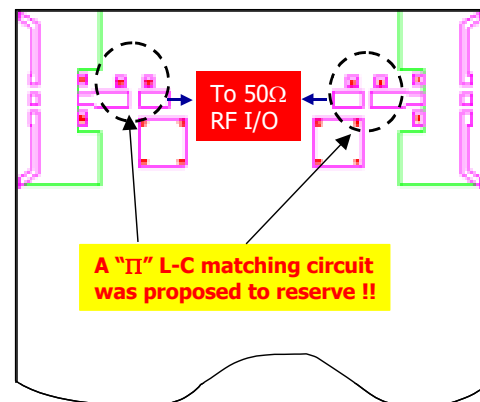
RCA-6050L1-TR





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.

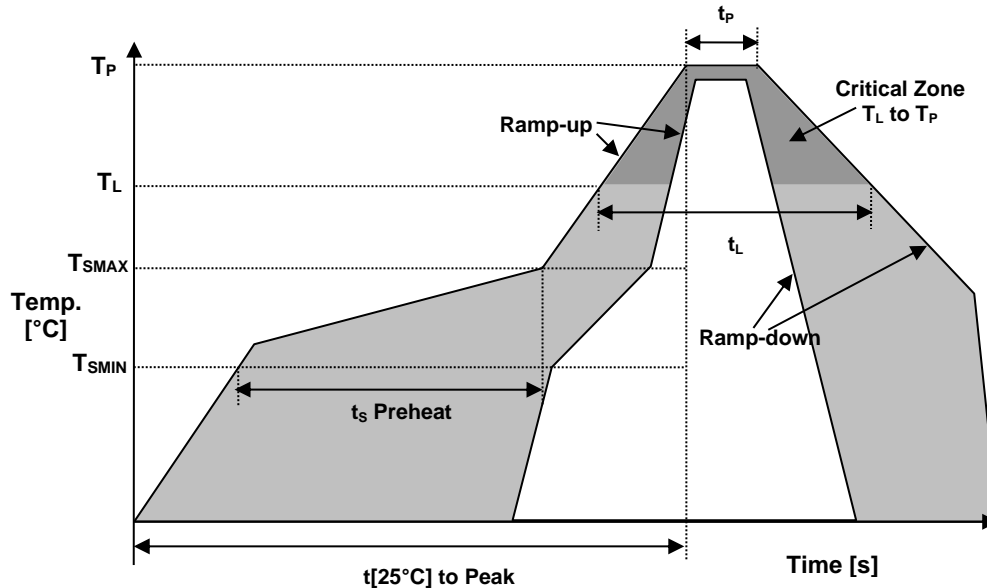
The performance of embedded ceramic antenna is sensitive influenced by customer's ground area, PC board size, thickness, material, mechanical design and material of housing for end product. The performance is guaranteed based on the installation as shown in above, to reserve a "Π" network is suggested 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	$t[25^\circ\text{C}] \text{ to Peak}$	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



• APPROVAL

RALTRON	
DRAWN BY:	CP, 19 August 2014
APPROVED BY:	CP, 19 August 2014
REVISION:	A, Initial Release

RCA-6050L0-TR

RCA-6050L1-TR

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