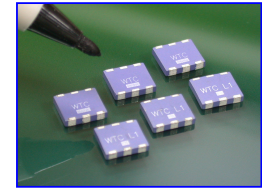


Combo & Full Band Antenna (Walsin Part Nr : RFANT6050110L0/L1T)

- Antenna Solution for WLAN IEEE802.11 a / b / g Application
- First and Smallest Dual-Mode Full-Band Antenna with High Gain
- SMD type with Matching-Free design



Patent Pending

FEATURES

- Combo application for IEEE 802.11b/g/a, broadband high frequency design cover with 2.4GHz , 5.2GHz, and 5.8GHz
- SMD antenna requires least space and lowest assembly cost.
- Free Impedance Matching and high Gain to optimize circuit layout design.
- Embedded Antenna with a smallest dimension of **5.9 x 5.1 x 1.1 mm³** meets to miniaturization trend.
- Broad bandwidth design with the less sensitive characteristics to the GND pad and external environment deviation.
- LTCC (Low Temperature Co-fired Ceramic) Multi-Layer technology to beautify the housing / outlook of the final product.

APPLICATIONS

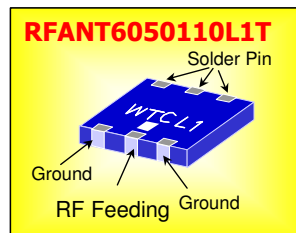
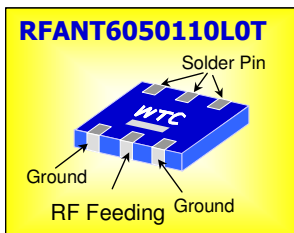
- Wireless LAN 802.11a/ b/ g combo application.
- Bluetooth/ HomeRF and ISM band 2.4GHz wireless applications

ELECTRICAL CHARACTERISTICS

Item	Specification		
Central frequency	2.45GHz	5.25GHz	5.85GHz
Bandwidth (Typical)	100 MHz	200 MHz	100 MHz
Peak Gain (Typical)	1.5 dBi	4 dBi	4 dBi
VSWR	2 max.		
Polarization	Linear		
Azimuth Beamwidth	Omni-directional		
Impedance	50Ω		

*Note. Electrical Characteristics should be defined after customers' application approval.

CONSTRUCTION

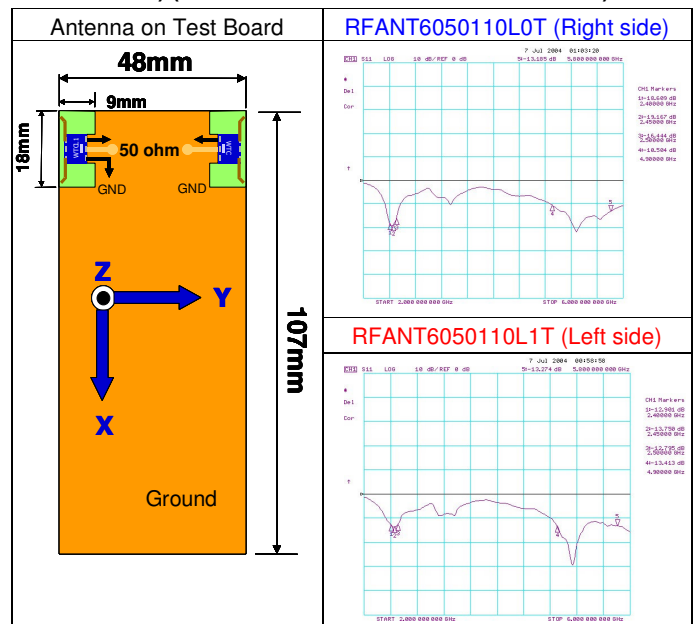


Outline of Combo / Full Band Chip Antenna

DIMENSION

RFANT6050110L0T		Symbol	Dimension	Port Definition
	L	5.9 ± 0.3mm	---	
	W	5.1 ± 0.3mm	---	
	T	1.1 ± 0.1mm	---	
	a	0.45 ± 0.2mm	---	
	b	1.0 ± 0.2mm	---	
	RFANT6050110L1T		Symbol	Dimension
	c	1.0 ± 0.2mm	---	
	d	2.0 ± 0.2mm	---	
	1	1.0 ± 0.2mm	RF Feeding	
	2	1.0 ± 0.2mm	Ground	
	3	1.0 ± 0.2mm	Solder	

S11 Chart measured on PCMCIA card dimension (107mm x 48m x 0.8mm) (RFANT6050110L0T/ RFANT6050110L1T)



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Specification subject to change without prior notice.