

RGFRA Series / Pb Free

- RGFRA080101A0T
- For 2400 ~ 2500 MHz Working Frequency

FEATURES

1. Surface Mounted Devices with a small dimension of 8.0 x 1.0 x 1.1 mm.
2. Antenna Frequency for 2400-2500 MHz

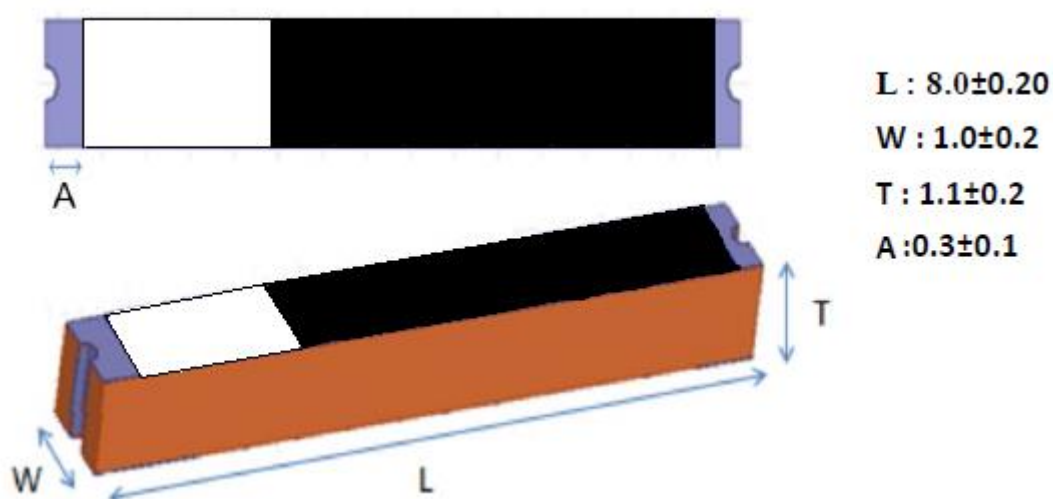
APPLICATIONS

1. For Miniaturized Bluetooth System

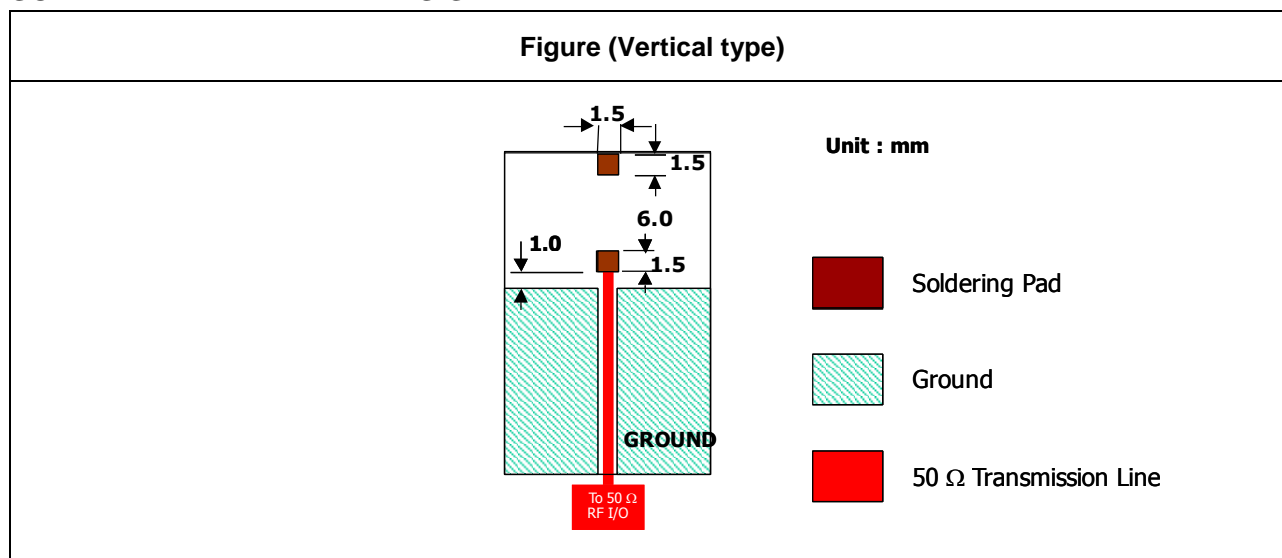
DESCRIPTION

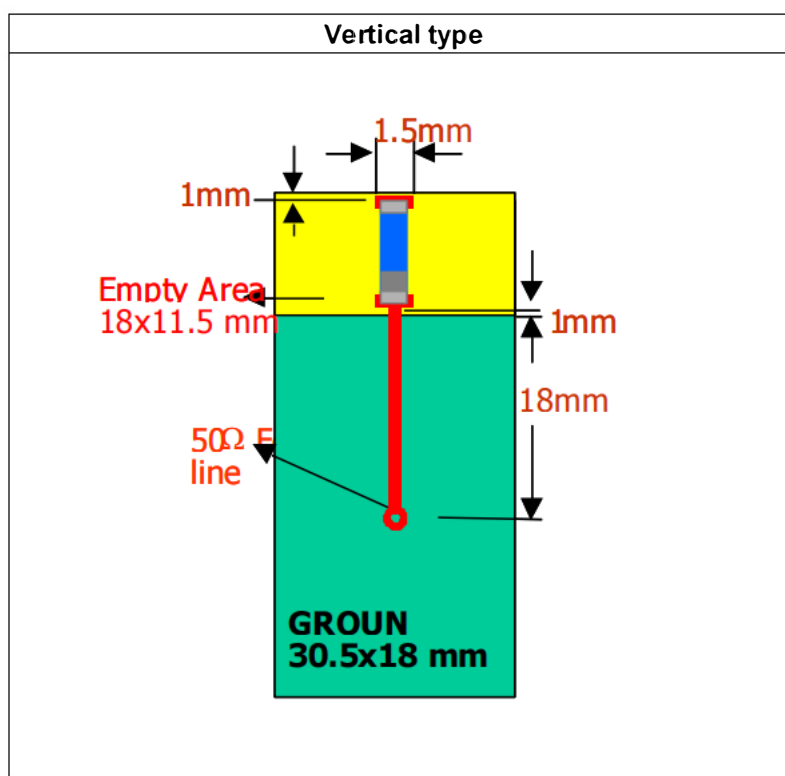
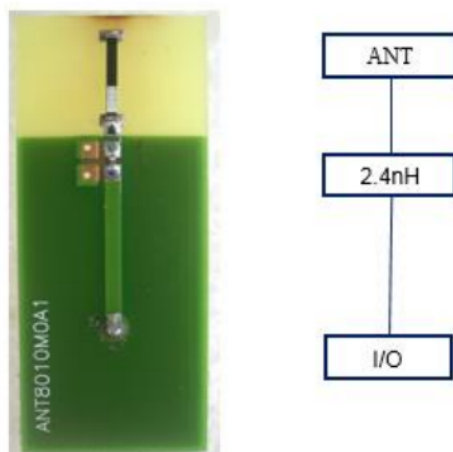
Walsin Technology Corporation develops a new antenna specified for 2.4 GHz ISM Band application, as shown in below "CONSTRUCTION". It's application typically located on this unlicensed frequency band which range covers from 2.4GHz to 2.5GHz.

CONSTRUCTION



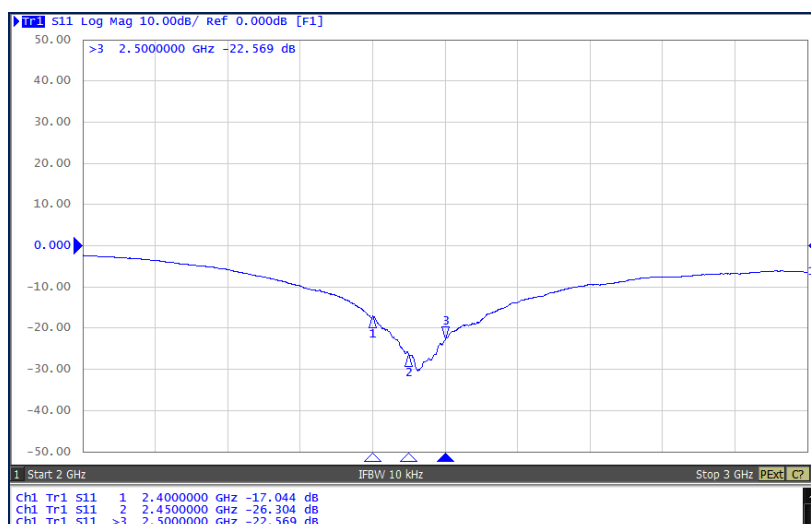
SOLDER LAND PATTERN DESIGN



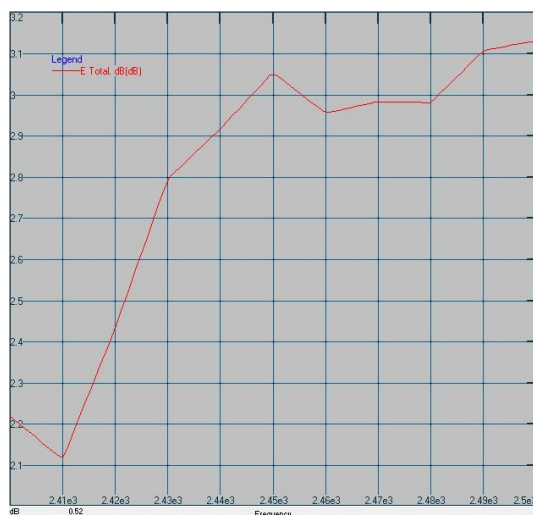
ANTENNA ON TEST BOARD (FR4 THICKNESS 0.8MM)

EVALUATION BOARD AND MATCHING CIRCUITS

ELECTRICAL CHARACTERISTICS

Part Number	RGFRA080101A0T+	
Central Frequency	2450	MHz
Bandwidth	±50 (Min.)	MHz
Return Loss	-9.6 (Max)	dB
Peak Gain	2.78	dBi
Impedance	50	Ohm
Polarization	Linear	
Azimuth Beamwidth	Omni-directional	

RETURN LOSS

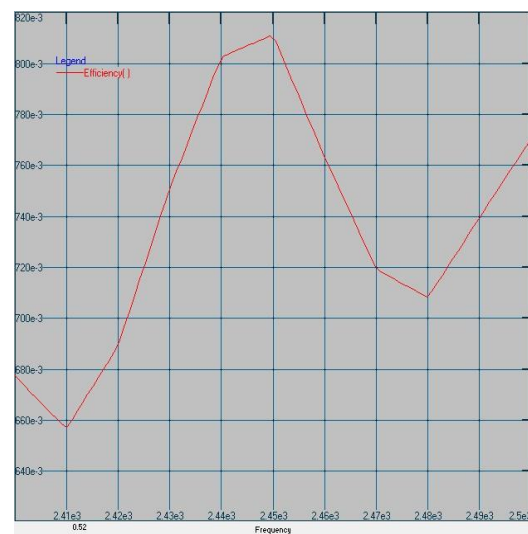


ANTENNA PEAK GAIN



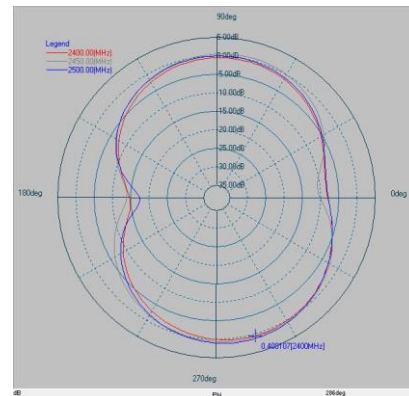
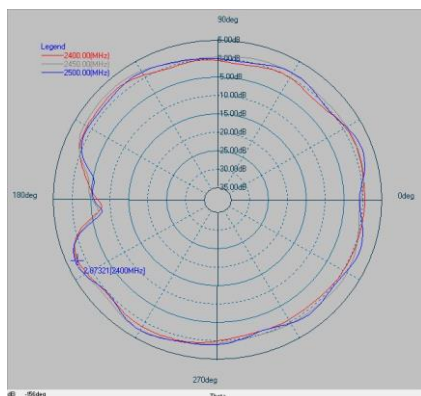
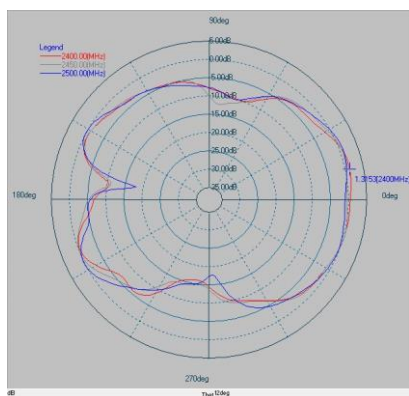
Maximum Peak Gain at 2450 MHz : 3.05dBi

ANTENNA EFFICIENCY



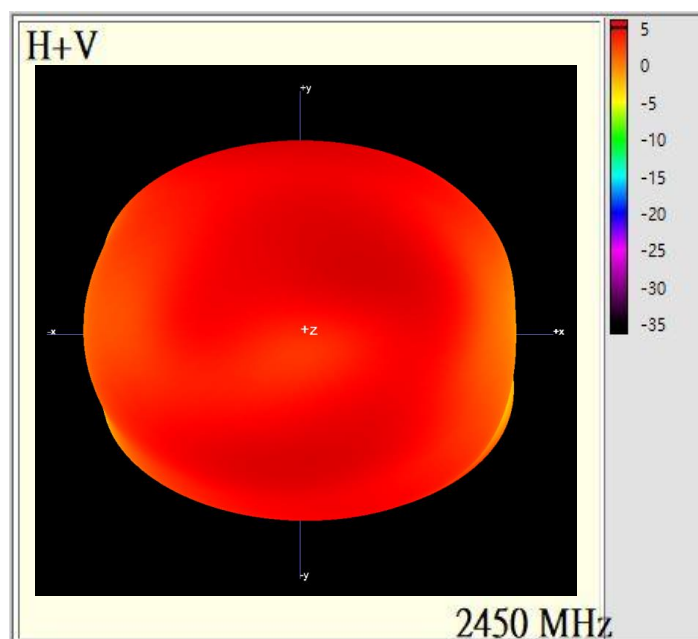
Maximum Efficiency at 2450 MHz : 81%

2D RADIATION PATTERNS



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.32	-3.36	2.07	0.08	0.41	-3.09
2450	0.66	-3.30	2.51	0.82	0.75	-2.28
2500	0.93	-3.25	2.78	0.57	1.16	-2.50

3D RADIATION PATTERNS



CONTACT INFORMATION

For more information, please contact with

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