

ACAG0301-15752450-T



FEATURES

- Made using LTCC (low temperature co-fired ceramic) technology
- Gain of 1.21dBi | 3.18dBi
- 1575MHz and 2450MHz frequency bands
- Small form factor 3.2 x 1.6 x 1.2mm
- Omni-directional

APPLICATIONS

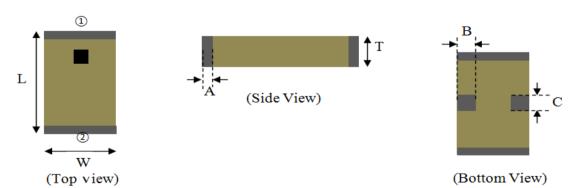
- IoT and wearable
- GPS devices
- Wifi
- Bluetooth
- ISM applications

ELECTRICAL CHARACTERISTICS

Item	Specification		
Frequency	1575 MHz	2450 MHz	
Bandwidth	20 MHz typ (1565~1585 MHz)	100 MHz (2400~2500 MHz)	
Peak Gain	1.21 dBi	3.18 dBi	
Return Loss	≥10 dB		
Impedance	50 Ω		
Operating Temperature Range	-40°C to + 85°C		

MECHANICAL DIMENSION (mm)

Antenna Dimension



Number	Terminal Name	Number	Terminal Name
1	INPUT-GPS	3	GND
(2)	INPUT-2.4GHz	4)	GND

++-		_				
Symbols	L	W	Т	Α	В	С
Dimensions	3.2+/-0.2	1.6+/-0.2	1.2+/-0.15	0.2+/-0.15	0.5+/-0.15	0.47+/-0.15
Dimensions	3.2+/-0.2	1.6+/-0.2	1.2+/-0.15	0.2+/-0.15	0.5+/-0.15	0.47+/-0



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**

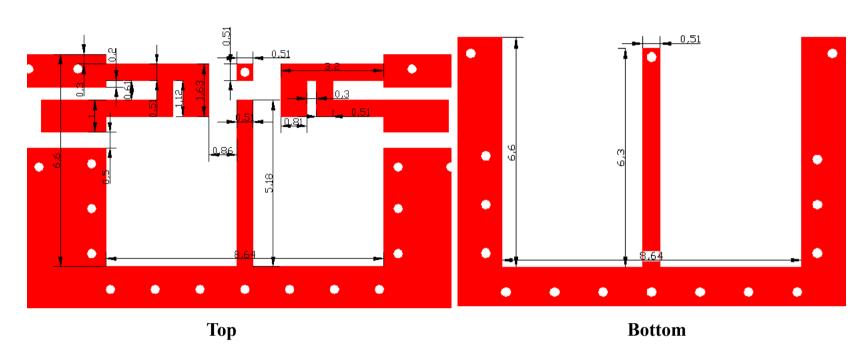


ACAG0301-15752450-T

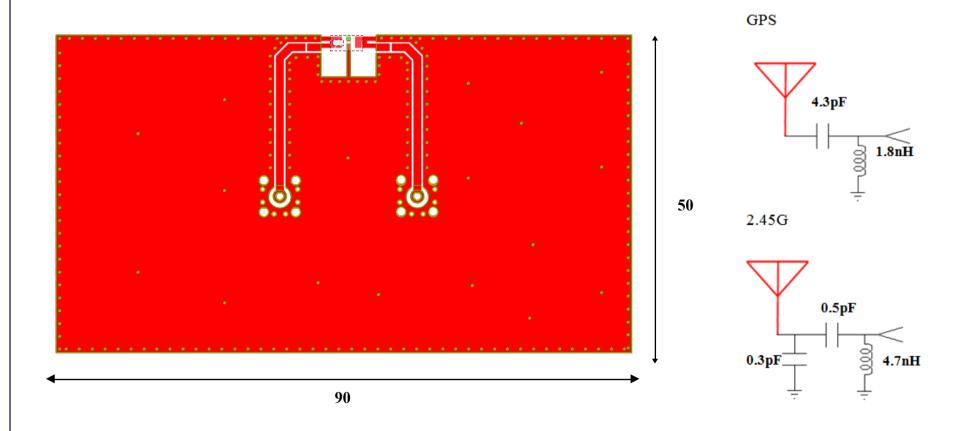


MECHANICAL DIMENSIONS (mm)

Layout Dimension



EVALUATION BOARD AND MATCHING CIRCUITS



Unit: mm



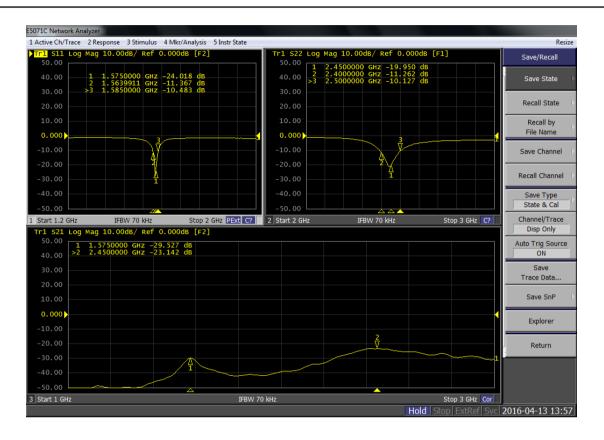
5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**



ACAG0301-15752450-T

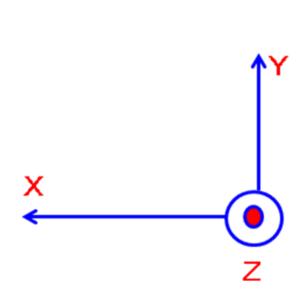


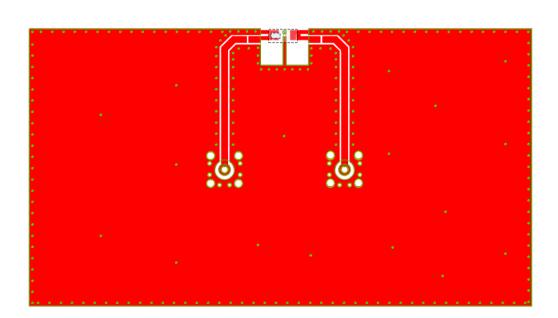
ANTENNA RESPONSE – RETURN LOSS S11



RADIATION PATTERNS

Coordinates







5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**

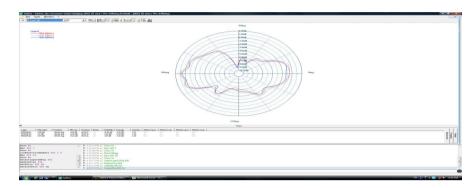


ACAG0301-15752450-T

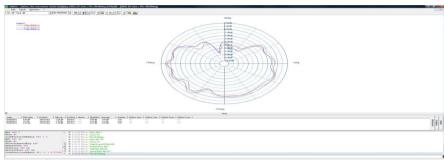


RADIATION PATTERNS

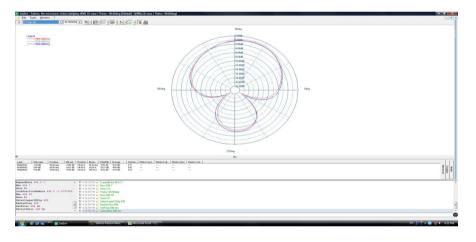
GPS X-Z Plane



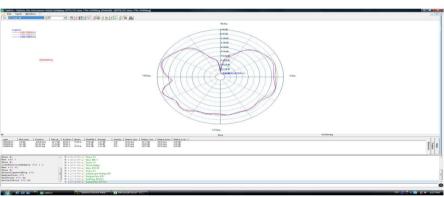
GPS Y-Z Plane



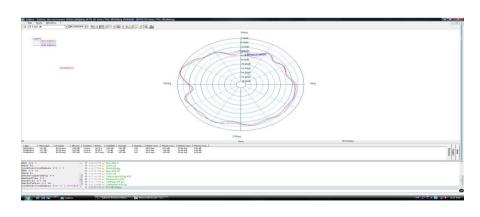
GPS X-Y Plane



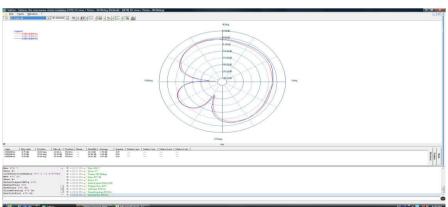
2.45G X-Z Plane



2.45G Y-Z Plane



2.45G X-Y Plane





5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**

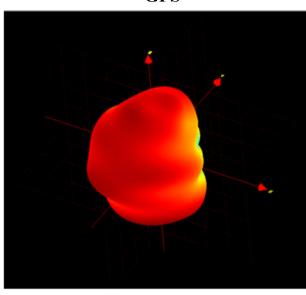


ACAG0301-15752450-T



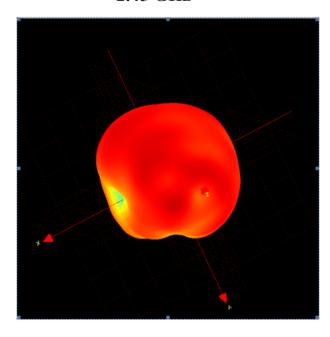
3D PATTERNS

GPS



Frequency (MHz)	1565	1575	1585
Avg. Gain (dBi)	-1.5	-1.13	-1.65
Peak Gain (dBi)	1.05	1.21	1.13
Efficiency (%)	53	57	52

2.45 GHz



Frequency (MHz)	2400	2450	2500
Avg. Gain (dBi)	-1.42	-1.19	-1.57
Peak Gain (dBi)	2.87	3.18	2.96
Efficiency (%)	66	73	67



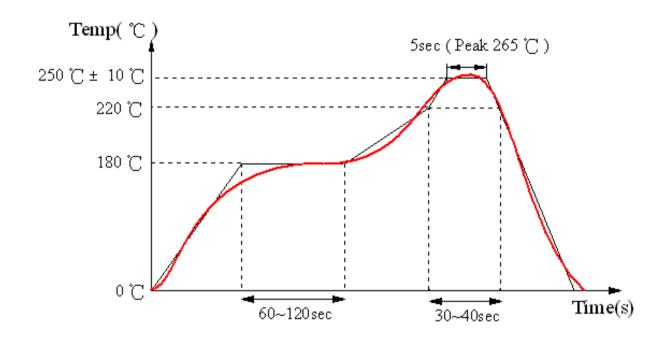
5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**



ACAG0301-15752450-T



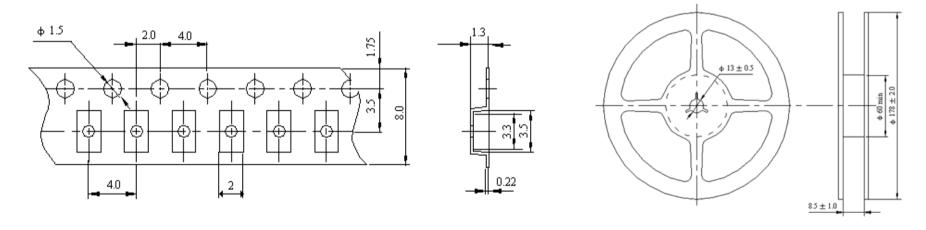
REFLOW SOLDERING STANDARD CONDITION



PACKAGING

Reel (3000 pcs/Reel)

Size of the carton: 330 x 210 x 210 mm



Dimensions: mm

Storage Temperature Range: <30 degree C, Humidity: <60%RH

MSL - 3

Oxidizable, 12 months in a vacuum sealed bag.

Once opened, please repack the unused items within 168 hours by re-seal package treatment.



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**



ACAG0301-15752450-T



CAUTIONS

1. Static voltage

Static voltage between signal & ground may cause deterioration & destruction of the component. Please avoid static voltage.

2. Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

3. Soldering

Only leads of the component may be soldered. Please avoid soldering to any other part of the component, such as on the patterns as this will change the performance of the antenna.



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 04.02.2019**

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Antennas category:

Click to view products by ABRACON manufacturer:

Other Similar products are found below:

GAN30084EU 930-033-R GW17.07.0250E 1513563-1 EXE902SM APAMPG-117 MAF94383 W3908B0100 W6102B0100 YE572113-30RSMM 108-00014-50 66089-2406 A09-F8NF-M A09-F5NF-M RGFRA1903041A1T W3593B0100 W3921B0100 SIMNA-868 SIMNA-915 SIMNA-433 W1044 W1049B090 A75-001 WTL2449CQ1-FRSMM CPL9C EXB148BN 0600-00060 TRA9020S3PBN-001 GD5W-28P-NF MA9-7N GD53-25 GD5W-21P-NF EXB144SM C37 MAF94051 GD35-17P-NF P1744 MA9-5N EXD420PL B1322NR QWFTB120 MAF94271 MAF94300 GPSMB301 FG4403 AO-AGSM-OM54 5200232 MIKROE-2349 WCM.01.0111 MIKROE-2393