



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Multiband Antenna Module

APAMPSLJ-142

RoHS/RoHS II Compliant



92.0 x 52.0 x 157.0 mm

MSL level: Not Applicable

FEATURES:

- Active GPS & Multiband External Antenna
- Covering Active GPS / GLONASS (1592 - 1610 MHz)
- Cellular: AMPS (850 MHz) / GSM (900 MHz) /DCS (1800 MHz)
- TETRA (380 - 500 MHz) / CDMA (450MHz)
- WIFI / Bluetooth (2.4 GHz)
- Car Fin Type body mount
- 3 coaxial separate output feeds
- LNA Gain: GPS/GLONASS 27dB at 5V
- Cellular Gain 3dBi (max), TETRA Gain 2dBi (max)
- VSWR GSM/TETRA <2.1, GNSS <1.2:1
- RoHS/RoHS II compliant
- 2J Technology

TYPICAL APPLICATIONS:

- GPS / GLONASS
- TETRA Public Safety
- Vehicle Cellular and 3G / WiFi Routers
- WiFi/Bluetooth
- Mobile broadband

STANDARD SPECIFICATIONS:

Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Receiving Frequency	1572		1610	MHz	GPS/GLONASS
	380		500	MHz	Tetra
	824		894	MHz	AMPS
	880		960	MHz	GSM900
	1710		1880	MHz	GSM1800
	1850		1990	MHz	GSM1900
	1920		2170	MHz	GSM2100
	2400		2497	MHz	WLAN/Bluetooth
Gain		2.2		dBi	Cell
		2		dBiC	GPS
		2		dBi	Tetra
VSWR			1.2:1		GPS/GLONASS
			3.5:1		GSM
			2:1		Tetra
Polarization Model	RHCP				GPS/GLONASS
	Vertical				GSM/Tetra
Impedance		50		Ω	
Operating Temperature	-40		+85	°C	

Low Noise Amplifier (GPS)

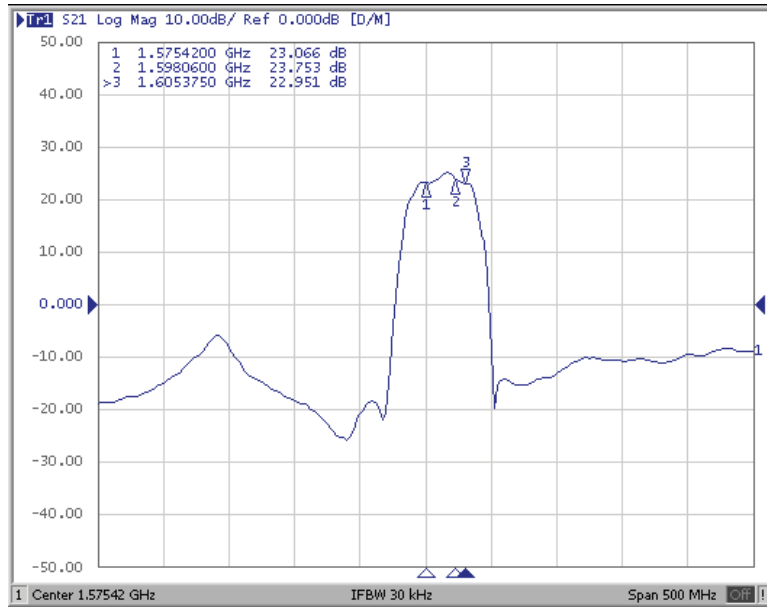
Parameters	Min.	Typ.	Max.	Units	Note
DC Voltage	2.7		5.5	V	
LNA Gain			24	dB	
Current	15		25	mA	
Operating Temperature	-40		+85	°C	



92.0 x 52.0 x 157.0 mm

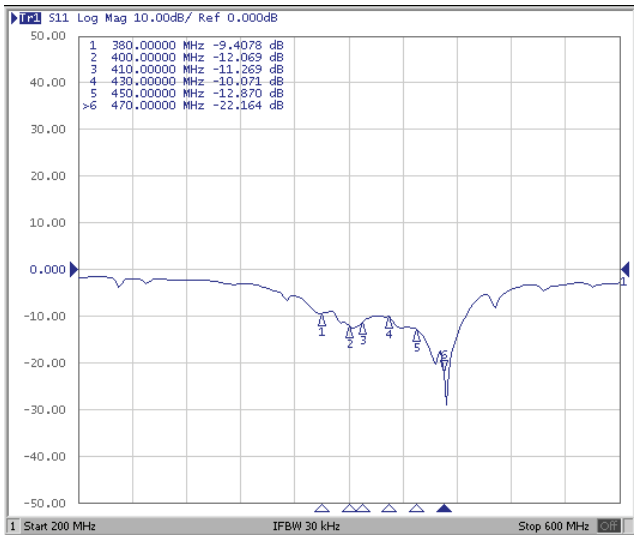
Antenna's Impedance and Return-Loss Characteristics

GNSS

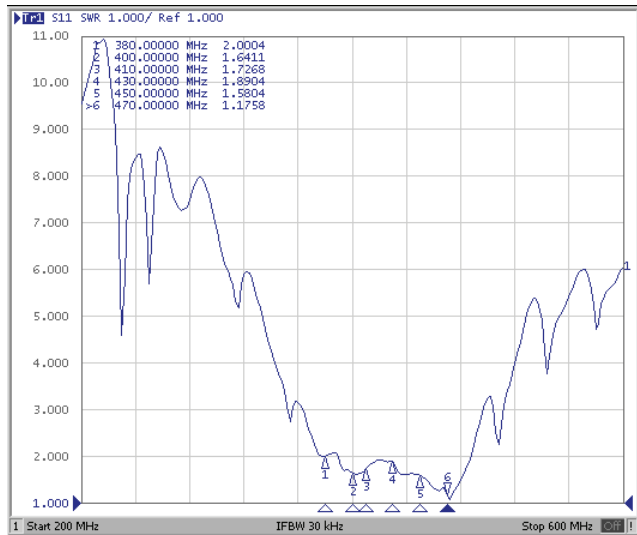


GPS gain (S21) at 3V

Tetra



Log Mag (S11)



VSWR (S11)

Multiband Antenna Module

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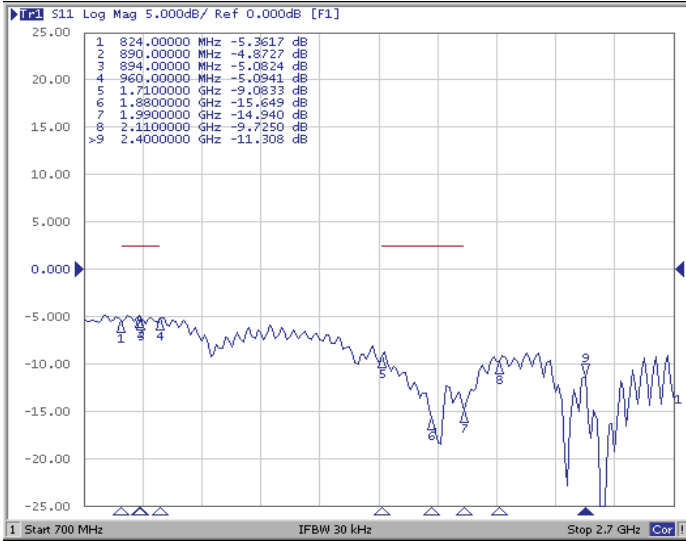
RoHS/RoHS II Compliant



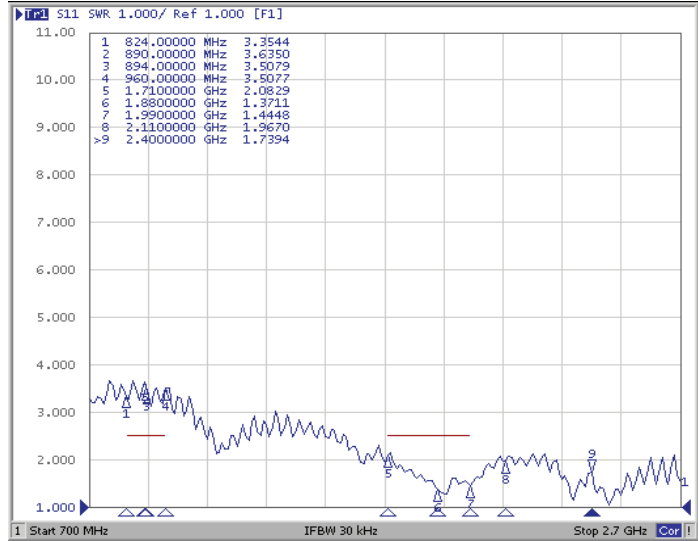
92.0 x 52.0 x 157.0 mm

Antenna's Impedance and Return-Loss Characteristics

Cell

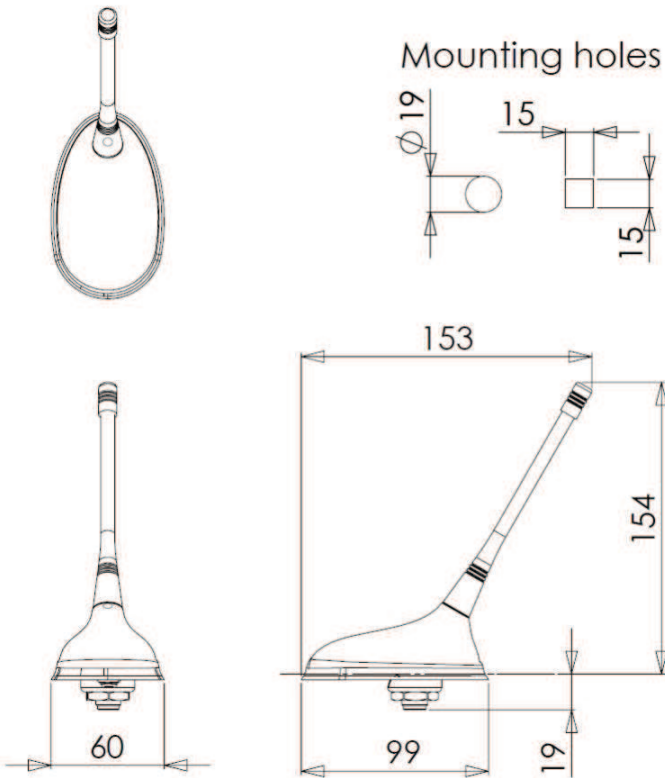


Log Mag (S11)



VSWR (S11)

OUTLINE DRAWING:



Parameters	Description
RF Connector	SMA male-GPS/GLONASS
	FME female-GSM
	SMA male-TETRA
Weight	250 g
Cable Type	2 x RG174 (GNSS and GSM) 1 x RG58 (Tetra)
Cable Length	250cm

Multiband Antenna Module

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RoHS/RoHS II Compliant



92.0 x 52.0 x 157.0 mm

PACKAGING:

Each antenna is individually packed in a 115x300mm poly bag. 50pcs is the suggested quantity per 470x350x210mm Box.



CAUTION:

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please insure the component is thoroughly evaluated in the application circuit.

NOTE:

- 1) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
- 2) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- 3) In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
- 4) When changing your production process, please notify ABRACON immediately.
- 5) ABRACON Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON Corporation is required. Please contact ABRACON Corporation for more information.
- 6) All specifications and Marking will be subject to change without notice.

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ABRACON IS
ISO9001:2008
CERTIFIED

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