### APAMPSLJ-142

#### **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

#### **STANDARD SPECIFICATIONS:**

**RoHS/RoHS II Compliant** 



#### **TYPICAL APPLICATIONS:**

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

Parameters	Min.	Тур.	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)

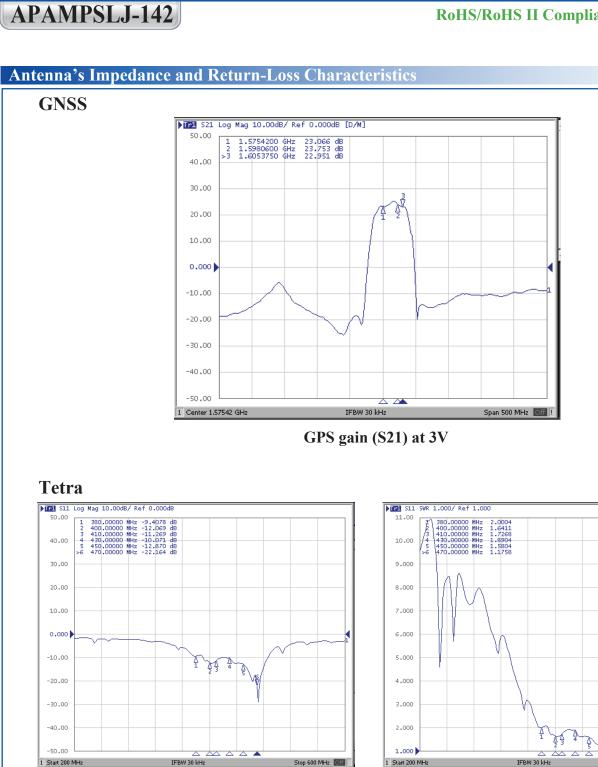
Parameters	Min.	Typ.	Max.	Units	Note
DC Voltage	2.7		5.5	V	
LNA Gain			24	dB	
Current	15		25	mA	
Operating Temperature	-40		+85	°C	



 $\geq$ 

#### **RoHS/RoHS II Compliant**

92.0 x 52.0 x 157.0 mm



Log Mag (S11)







Stop 600 MHz Off !

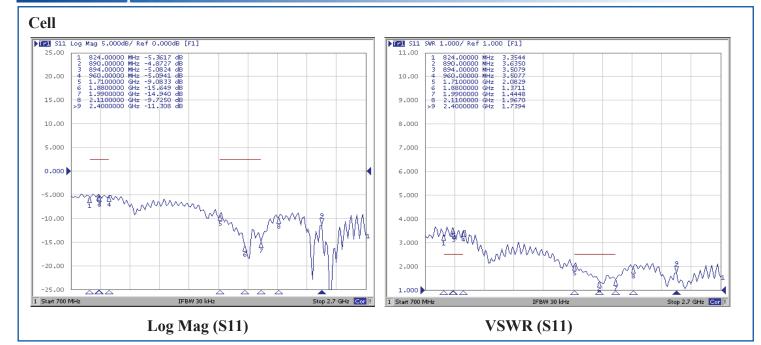
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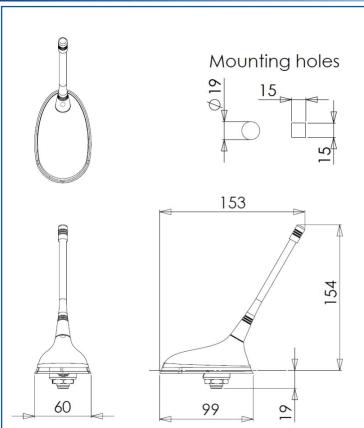
#### **RoHS/RoHS II Compliant**



#### Antenna's Impedance and Return-Loss Characteristics



#### **OUTLINE DRAWING:**



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





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# **Multiband Antenna Module**

### **APAMPSLJ-142**



**RoHS/RoHS II Compliant** 

#### **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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