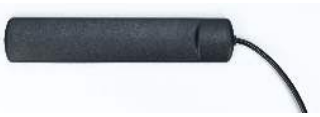
# Multiband Antenna Module



126.5 x 22.0 x 6.7mm

## APAMSTJ-138

RoHS/RoHS II compliant
Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-I)

**MSL level: Not Applicable**

## FEATURES:

- Passive multiband antenna (380MHz ~ 2400MHz)
- Covering TETRA + ISM + Quad Band Cellular + 3G + WiFi
- Glass mount design (6.7mm x 126.5mm x 22mm)
- SMA Male connector
- Gain (2.2dBi) Typ
- VSWR 2:1 (Cell), 3:1 (TETRA)
- 25W Power handling
- 10K Ohm Termination resistor for checking connection
- Easy to install (adhesive tape base)
- RoHS/RoHS II compliant

## TYPICAL APPLICATIONS:

- TETRA Public Safety
- ISM (868MHz)
- AMPS
- GSM
- Vehicle Cellular and 3G / WiFi Routers
- WiFi/Bluetooth
- Mobile broadband

## STANDARD SPECIFICATIONS:

| Parameters | Min. | Typ. | Max. | Units | Note |
|---|---|---|---|---|---|
| Receiving Frequency | 380 | | 500 | MHz | TETRA |
| | 824 | | 894 | MHz | AMPS |
| | | 868 | | | ISM |
| | | 900 | | MHz | GSM |
| | | 1800 | | MHz | DCS |
| | | 1900 | | MHz | PCS |
| | | 2.1 | | GHz | 3G/UMTS |
| | | 2.4 | | GHz | WIFI/BLUETOOTH |
| VSWR | | | 3:1 | | @TETRA |
| | | | 2:1 | | @CELL |
| Polarization Model | Linear | | | | |
| Impedance | | 50 | | Ω | |
| Gain | | 2.2 | | dBi | |
| Operating Temperature | -40 | | +85 | ˚C | |
| Diagnostic Resistor | 9.5 | 10 | 10.5 | kΩ | |



5101 Hidden Creek Lane Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sale please visit:
www.abracon.com

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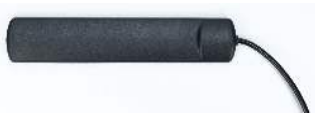

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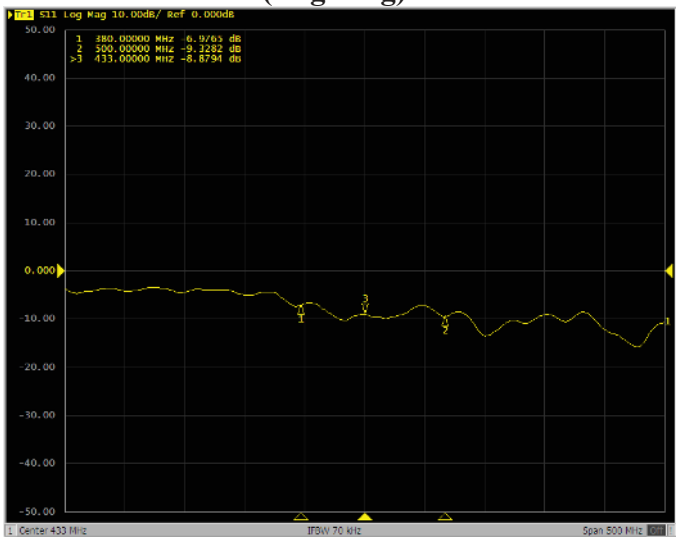
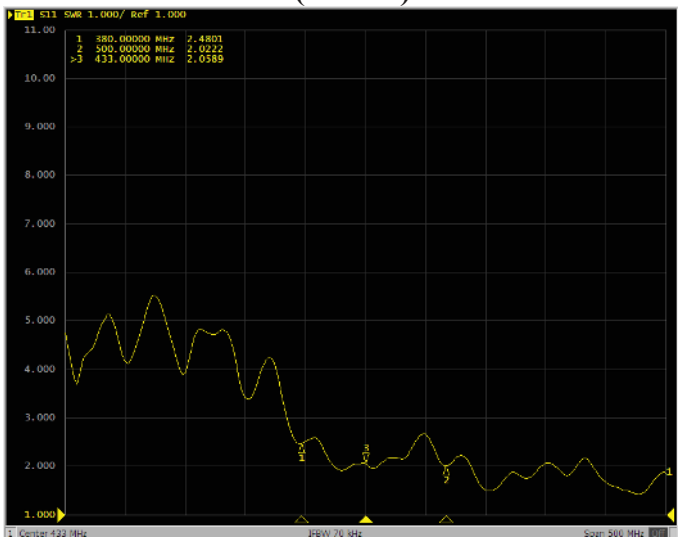
## ANTENNA MATCHING S11 CHARACTERISTICS

### Tetra

S11(Log Mag)

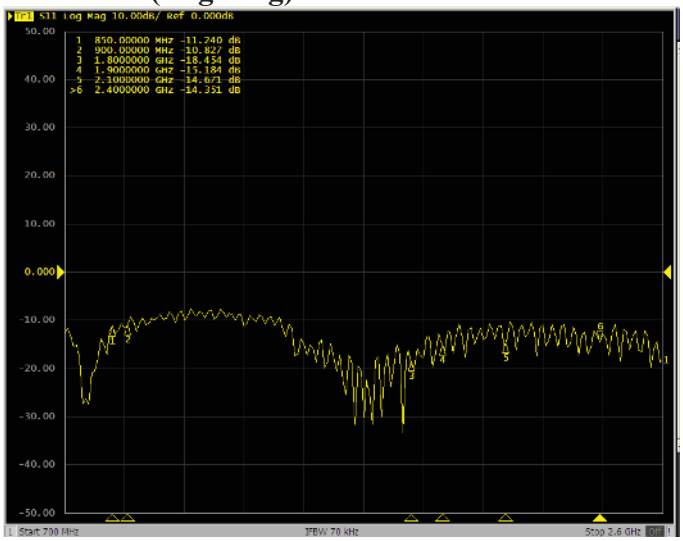



S11 (VSWR)

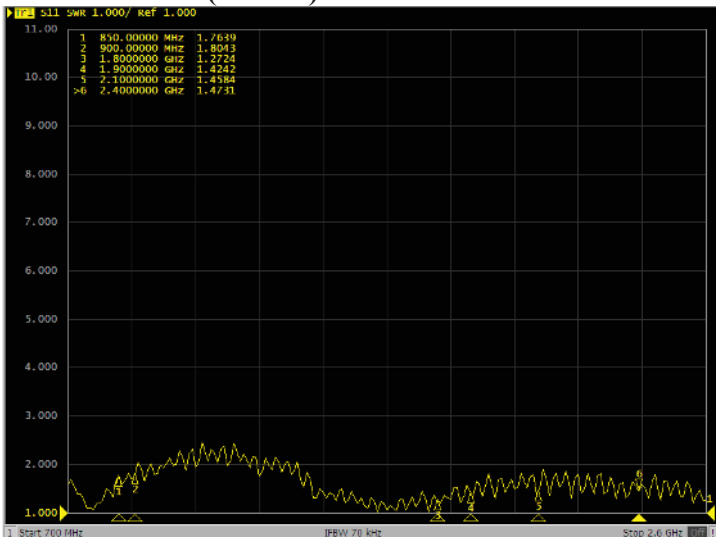



### Quad Band + WiFi

S11(Log Mag)




S11 (VSWR)







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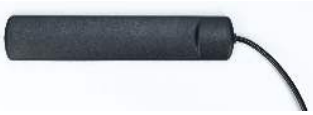

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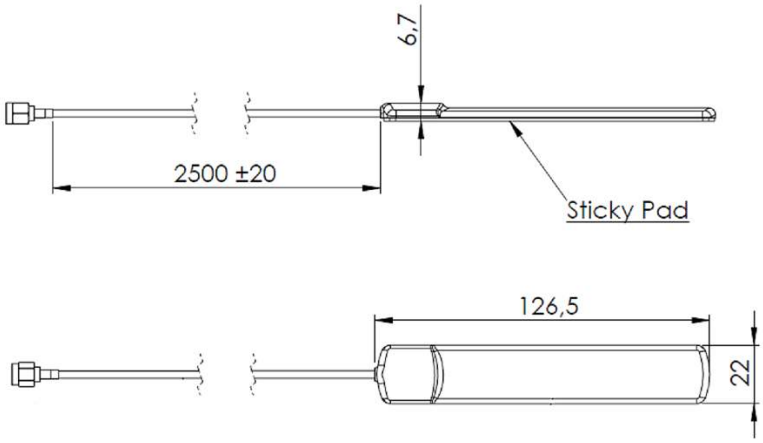
## OUTLINE DRAWING:




| Parameters | Description |
|---|---|
| RF Connector | SMA male, Nickel |
| Weight | 46,5 g |
| Cable Type | Coaxial Cable-RG174 |
| Cable Length | 2.5m |
| Material | ABS |
| Color | Black |

**Unit: mm**

## PACKAGING:

Each antenna is packed in an individual poly bag. 200 pieces antenna in 465x310x250mm box is the suggested quantity.

**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.

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