# APAMSTJ-139

### MSL level: Not Applicable

### **FEATURES**:

- TETRA Whip Antenna (380 ~ 500MHz)
- Compact design 54.6mm x 13.2mm
- Ground Plane type
- Gain (2dBi max)
- VSWR 1.5:1 max
- Whip mount with male SMA
- RoHS/RoHS II compliant
- 2J Technology

 $\triangleright$ 

# **STANDARD SPECIFICATIONS:**



## **TYPICAL APPLICATIONS:**

- TETRA Radios
- Emergency Services
- Public Safety

STANDARD SPECIFICATIONS:					
Parameters	Min.	Тур.	Max.	Units	Note
Receiving Frequency	380		500	MHz	(Center frequency can be tuned between 380-500 MHz)
Bandwidth	15	20	25	MHz	
VSWR			1.5:1		
Polarization Model		Vertical			
Impedance		50		Ω	
Gain			2.0	dBi	
Operating Temperature	-40		+85	°C	

## ANTENNA MATCHING S11 CHARACTERISTICS

Antenna is tuned to 433MHz on 45x90mm ground plane.



Figure 1 - Antenna placement with grounding board

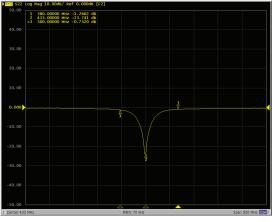


Figure 2 - Log Mag (Tuned on 45x90mm ground plane to 433MHz)

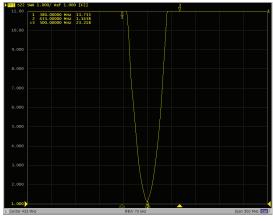


Figure 3 - VSWR (Tuned on 45x90mm ground plane to 433MHz)

ABRACON IS ISO9001:2008 CERTIFIED



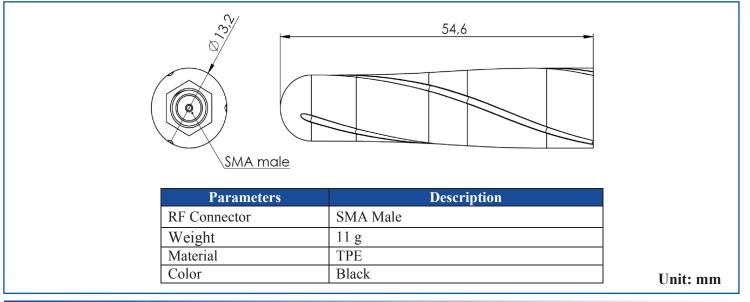
2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 06.11.15** Ph. 949.546.8000 | Fax. 949.546.8001 Visit www.abracon.com for Terms and Conditions of Sale

# APAMSTJ-139

**RoHS/RoHS II compliant** 



## **OUTLINE DRAWING:**



## ▶ PACKAGING:

Each antenna is packed individually is a poly bag. 1000 pieces is the suggested quantity in a 465 x 310 x 250mm size 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.

**ATTENTION:** 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.



