

# External GSM Antenna

## APAMS-102

RoHS/RoHS II compliant

Lead in copper alloy exemption (6c); and Lead in glass exemption (7c-I)



138 x 21 x 6mm

MSL level: Not Applicable

### FEATURES:

- High Reliability/ Sensitivity
- Compact Size
- Easy to Install (magnetic base /adhesive tape)
- ROHS Compliant

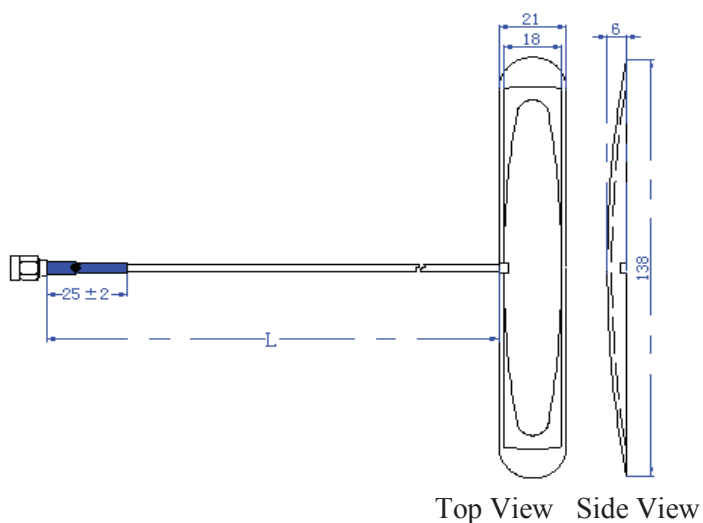
### TYPICAL APPLICATIONS:

- Wireless Communications
- GSM
- GPRS
- CDMA
- UMTS
- Vehicle Monitoring

### STANDARD SPECIFICATIONS:

| Parameters         | Min.                | Typ. | Max. | Units    | Note       |
|--------------------|---------------------|------|------|----------|------------|
| Frequency Range    | 820                 |      | 960  | MHz      | (GSM900)   |
|                    | 1710                |      | 1880 | MHz      | (GSM1800)  |
|                    | 1850                |      | 1990 | MHz      | (GSM1900)  |
|                    | 1900                |      | 2170 | MHz      | (UMTS)     |
| Bandwidth          |                     | 140  |      | MHz      | (@900MHz)  |
|                    |                     | 170  |      | MHz      | (@1800MHz) |
|                    |                     | 140  |      | MHz      | (@1900MHz) |
|                    |                     | 170  |      | MHz      | (@2000MHz) |
| VSWR               |                     |      |      | 2:1      |            |
| Polarization Model | Linear Polarization |      |      |          |            |
| Impedance          |                     | 50   |      | $\Omega$ |            |
| Gain               |                     | 1    |      | dBi      | (@900MHz)  |
|                    |                     | 2    |      | dBi      | (@1800MHz) |
|                    |                     | 2.5  |      | dBi      | (@1900MHz) |
|                    |                     | 3    |      | dBi      | (@2000MHz) |
| Azimuth            | Omni-Directional    |      |      |          |            |

### OUTLINE DRAWING:



| Parameters       | Description   |
|------------------|---------------|
| L (Cable Length) | 300±50cm      |
| Antenna          | PCB           |
| RF Connector     | SMA-J3        |
| RF Cable         | RG174         |
| Thickness        | 6mm           |
| Mounting         | Adhesive Type |
| Enclosures       | Plastic       |

Unit: mm

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## PRODUCT IMAGE:



## PACKAGING:

Each 475x215x215mm size carton includes 100 pieces of antenna.



### 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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30332 Esperanza, Rancho Santa Margarita, California 92688  
tel 949-546-8000 | fax 949-546-8001 | [www.abracon.com](http://www.abracon.com)