

ESG-GSM-07

ESG-GSM-07 microwave dielectric antenna elements and its series are designed to be used for GSM and other wireless products. The patch antenna with compact size incorporates featuring low SWR and moderate gain. Suitable for portable devices with limited space for full size antenna placing.

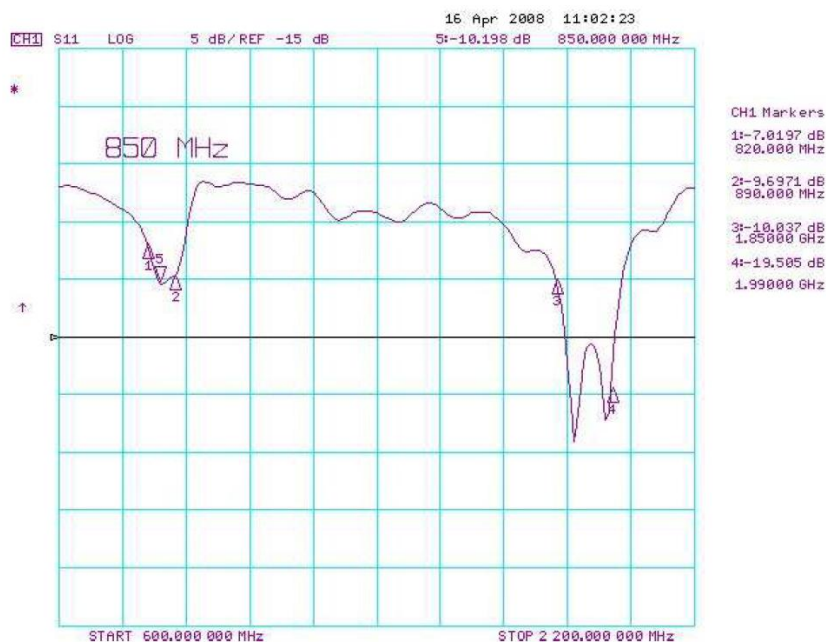


Electrical Characteristic

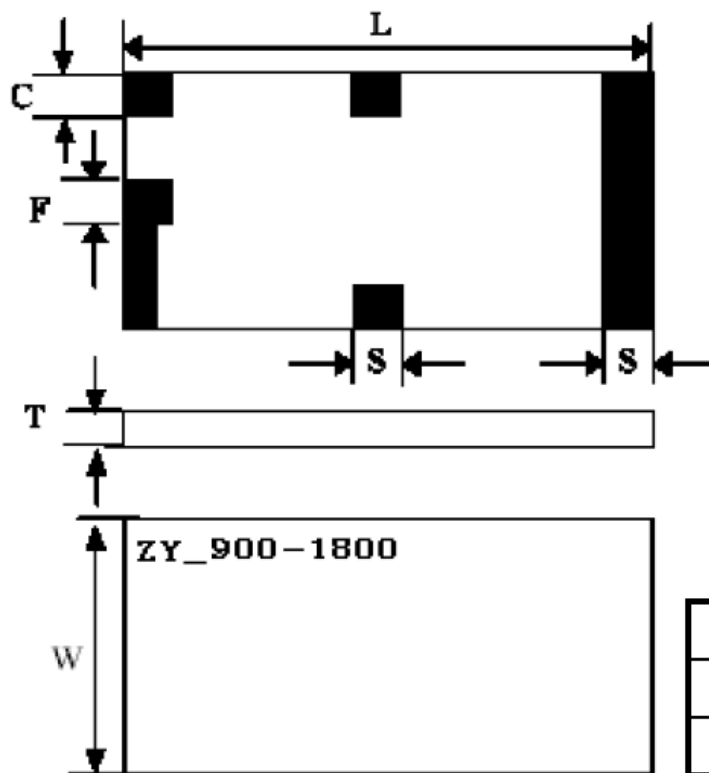
Item	Specifications
Working Frequency ± 5 MHz	820-890MHz 1850-1990MHz
Bandwidth* ± 5 MHz	30 MHz@850MHz 100 MHz@1900MHz
VSWR*	3.0 max
Gain*	2.0dBi max@925MHz 2.0dBi max@1800MHz
Polarization	Linear
Impedance	50 Ω
Operating Temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C
Azimuth	Omni-directional



Characteristic curve



Dimension

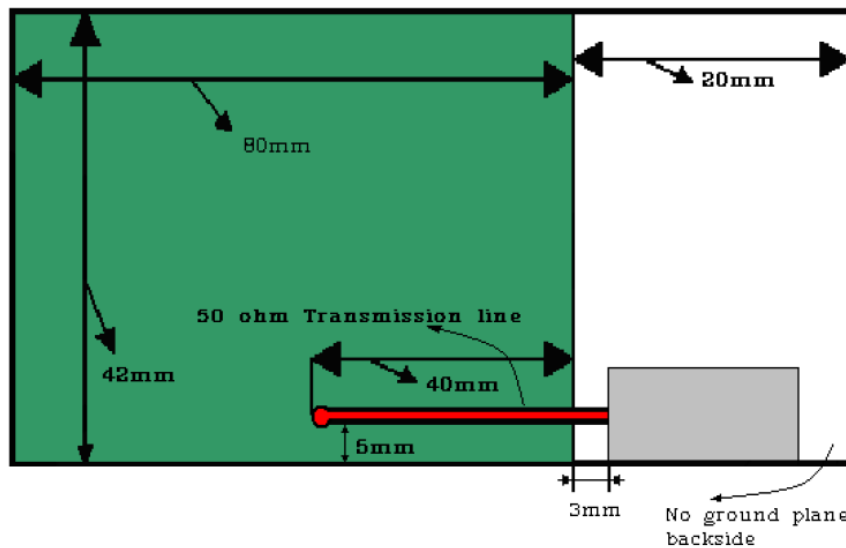


	Dimension
L	17 ± 0.5
W	11 ± 0.5
S	2 ± 0.3
C	2 ± 0.3
F	2 ± 0.3
T	2 ± 0.3

F	Feeding Termination
S	Solder Termination
C	Solder Termination

FR-4 PCB thickness = 0.8 mm

The width of transmission line = 1.56mm (depends on PCB thickness)

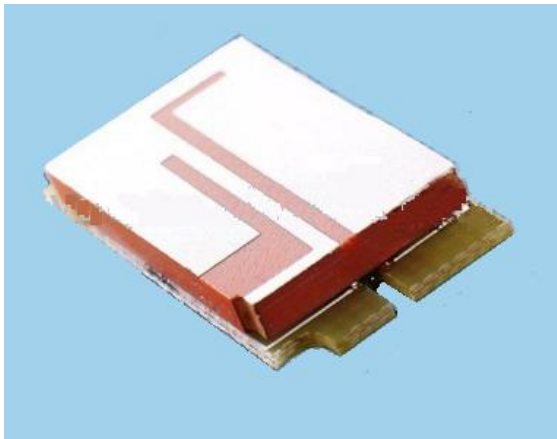
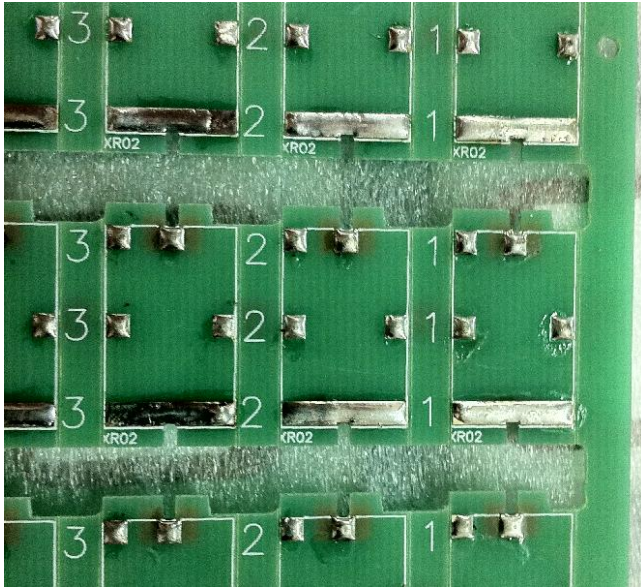


Reliability

MTBF = 1×10^{-6} / pc.hr

Test condition: Temperature: $40 \pm 5^\circ\text{C}$; Quantity: 2000pcs; Sustained Time: 480h

Test board sample



Handling

- This product specification guarantees the quality of our product as a single unit.
- Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
- We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.
- The product will get free warranty for three months since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
- Electrostatic sensitive device. Observe precautions for handling.