

DESCRIPTION

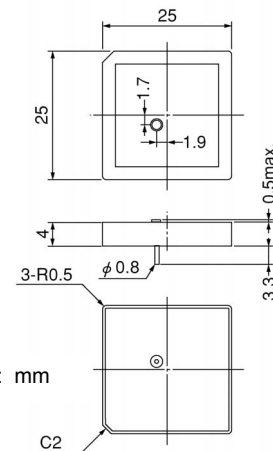
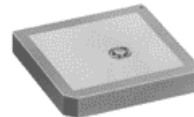
The TOKO DAK1575MS50T is a low profile, dielectric antenna element specifically designed for 1575.42 MHz L1 GPS applications. The flat patch antenna incorporates a rectangular micro-strip design for GPS C/A right-hand circular polarization wave reception. The DAK1575MS50T has excellent stability and sensitivity through the use of high performance ceramic materials well suited for GPS applications and ships with double-sided adhesive tape for ease in mounting to the ground plane.



FEATURES

- Range of Receiving Freq.: 1575.42±1.023 MHz
- Center Freq.: 1580.5 MHz with 70mm² GND plane¹
- Bandwidth: 9 MHz min.
- Miniature Footprint: 25mm x 25mm
- Low Profile: 4.5mm
- Gain (Zenith 90°): +5 dBi (typ.)
- Gain (10° Elevation): -1 dBi (typ.)
- Impedance: 50 Ω
- Freq. Temperature Coefficient: 20ppm/°C max.
- Operating Temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C

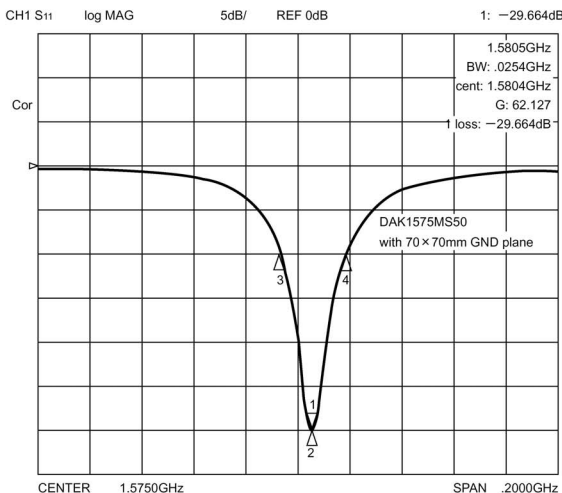
DIMENSIONS



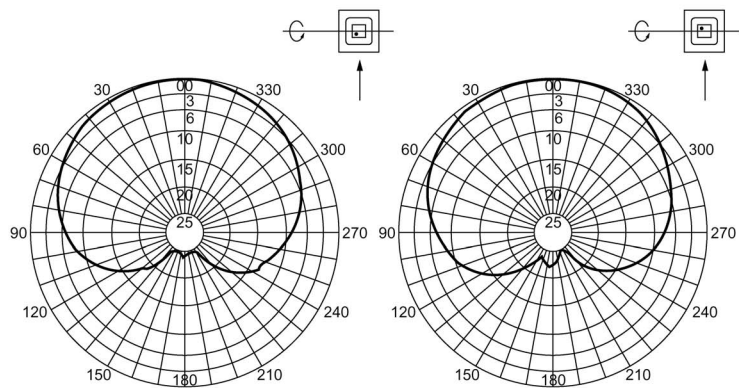
Units: mm

TYPICAL CHARACTERISTICS

Return Loss



Directivity Charts



TX: Right Hand Circular Polarized Signal
Frequency = 1580.5MHz

Measured with 70mm sq. ground plane

NOTE 1: Center frequency is shifted approximately 5MHz down when covered with a radome.

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