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 plane
- **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

TYPICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Return Loss</th>
<th>Directivity Charts</th>
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<tr>
<td><img src="chart1.png" alt="Return Loss Chart" /></td>
<td><img src="chart2.png" alt="Directivity Charts" /></td>
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**NOTE 1:** Center frequency is shifted approximately 5MHz down when covered with a radome.

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