1.9 GHz RX Diversity
Ceramic Antenna
Ground cleared under antenna, clearance area 10.60 x 6.25 mm
Pulse Part Number: W3029

Features
- Omnidirectional radiation
- Low profile
- Compact size W x L x H (10 x 3.2 x 2 mm)
- Low weight (310 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications
- GSM 1900 MHz band (PCS)
- 1.93-1.99 GHz

Electrical specifications @ +25 °C
Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP and Ground Clearance area size.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1930 – 1990</td>
<td>2 (peak) 1.3 (band edges)</td>
<td>80 / -1 (peak) 70 / -1.55 (band edges)</td>
<td>-10</td>
<td>50</td>
<td>-40 to +85</td>
</tr>
</tbody>
</table>

RX Diversity 1930-1990 MHz
Typical performance test board size 80 x 37 mm, PWB ground clearance area 10.60 x 6.25 mm

Pulse Antennas
Takatie 6
90440 Kempele, Finland
Tel: +358 207 935 500
Fax: +358 207 935 501
www.pulseeng.com/antennas
1.9 GHz RX Diversity
Ceramic Antenna

Ground clear under antenna, clearance area 10.60 x 6.25 mm

Typical Electrical Characteristics (T=25 °C)
Measured on the 80 x 37 mm test board

Typical Return Loss S11/impedance
Free space 3D maximum gain

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Return Loss (S11)</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>-16.913 dB</td>
<td>1.93000 GHz</td>
</tr>
<tr>
<td>2.</td>
<td>-16.166 dB</td>
<td>1.99000 GHz</td>
</tr>
<tr>
<td>3.</td>
<td>-37.462 dB</td>
<td>1.96000 MHz</td>
</tr>
</tbody>
</table>

Typical Return Loss S11'/impedance
Free space efficiency and maximum gain

<table>
<thead>
<tr>
<th>Frequency [MHz]</th>
<th>Maximum Gain [dBi]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1930–1990 MHz</td>
<td>Max Gain [dBi]</td>
</tr>
<tr>
<td>1.93000 GHz</td>
<td>0.000</td>
</tr>
<tr>
<td>1.99000 GHz</td>
<td>-1.000</td>
</tr>
<tr>
<td>1.96000 MHz</td>
<td>-2.000</td>
</tr>
</tbody>
</table>

Electric Co., Ltd.

Pulse Antennas
Takatia 6
90440 Kamele, Finland
Tel: +358 207 935 500
Fax: +358 207 935 501
www.pulseeng.com/antennas

© 2006 All Rights Reserved.
1.9 GHz RX Diversity Ceramic Antenna
Ground cleared under antenna, clearance area 10.60 x 6.25 mm

Typical Free Space Radiation Patterns