FEATURES

- Broadband Output Frequency Spectrum (from second harmonic to 50 GHz)
- No Bias Required
- Input Matched to 50 Ohms
- Very Low Phase Noise
- Hermetically Sealed Module
- Excellent for Multiplier Applications
- Custom Input Frequency Available from 500MHz to 10GHz

APPLICATIONS

- Impulse Generator
- Frequency Multipliers
- Frequency Synthesizers
- Built-In-Self-Test Sources

ENVIRONMENTAL RATINGS

Max Input Power.......................... 1 Watt
Operating Temperature.................... -55ºC to +95ºC
Storage Temperature........................ -65ºC to +150ºC
Temperature Cycling........................ -65ºC to +150ºC
Shock................................. 1500 G, 0.5 msec; 50 G, 11 msec
Vibration...................................... 20 G, 100 to 2,000 Hz
Acceleration.................................. 10,000 G

Specifications: (@ +25ºC, 0.5 Watt Input)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT FREQ. (MHz)</th>
<th>MAX INPUT VSWR</th>
<th>MINIMUM OUTPUT POWER PER PICKET (dBm)</th>
<th>OUTLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>UP to 20 GHz</td>
<td>20 - 30 GHz</td>
</tr>
<tr>
<td>GC0540A</td>
<td>500</td>
<td>2:1</td>
<td>-25</td>
<td>-40</td>
</tr>
<tr>
<td>GC1540A</td>
<td>1500</td>
<td>2:1</td>
<td>-10</td>
<td>-25</td>
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<td>GC1050A</td>
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</tbody>
</table>

Note 1: Internal DC return included
Note 2: Other input frequencies from 500 MHz to 10 GHz are available. Contact factory for information.
Note 3: All units can respond to a 3% bandwidth of input frequency without noticeable degradation.
Note 4: All models can be modified for use as an impulse generator. Consult factory for information on output amplitude, polarity, and pulse width.

For Package Outlines see Outline Drawings Page