FEATURES

- Broadband Output Frequency Spectrum (from second harmonic to 26 GHz)
- No Bias Required
- Input Matched to 50 Ohms
- Very Low Phase Noise
- Hermetically Sealed Module
- Available in Drop-In Type Package
- Custom Input Freq Available From 10MHz to 10GHz
- Option for Enhanced Assembly for Severe Vibration Environment

APPLICATIONS

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

ENVIRONMENTAL RATINGS

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

Specifications: (@ +25°C, 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 OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC100**</td>
<td>100</td>
<td>2:1</td>
<td>-10 -20 -30 -40 ---- C,L,Y</td>
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<tr>
<td>GC200**</td>
<td>200</td>
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<td>-5 -15 -25 -35 ---- C,L,Y</td>
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<tr>
<td>GC250**</td>
<td>250</td>
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<td>0 -10 -20 -30 ---- C,L,Y</td>
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<tr>
<td>GC500**</td>
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<td>+5 -5 -15 -20 ---- C,L,Y</td>
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<tr>
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<td>+5 0 -10 -15 ---- C,L,Y</td>
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<td>GC0526**</td>
<td>500</td>
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<td>+5 -5 -15 -20 -40 C,L,Y</td>
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<tr>
<td>GC1026**</td>
<td>1000</td>
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<td>+5 0 -10 -15 -35 C,L,Y</td>
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<tr>
<td>GC1526**</td>
<td>1500</td>
<td>2:1</td>
<td>+5 0 -5 -10 -25 C,L,Y</td>
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<tr>
<td>GC2026**</td>
<td>2000</td>
<td>2:1</td>
<td>+5 +5 0 -10 -20 C,L,Y</td>
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</tbody>
</table>

Note 1: Suffix (**) specify options for internal DC return and package style. First Position: N indicates no DC return and R indicates internal DC return included. Note that DC Return is required for proper operation. Second Position: C, L, or Y indicates Package style (see outline drawings page)

Note 2: Other input frequencies from 10 MHz to 10 GHz are available. Contact factory for information.

Note 3: For second harmonics up to 4 GHz the fundamental feedthrough is typically +15dBm.

Note 4: All units can respond to a 3% bandwidth of input frequency without noticeable degradation.

Note 5: All models can be modified for use as an impulse generator. Consult factory for information on output amplitude, polarity, and pulse width.

Note 6: Add “X” to final suffix for an enhanced assembly version for more severe vibration environment.

For Package Outlines see Outline Drawings Page
TYPICAL OUTPUT POWER SPECTRUM ENVELOPE

-20
-10
0
+10
+20
Power Output (dBm)

Fundamental Feedthrough

GC1000 & GC1026
GC250
GC100
GC2026
GC500 & GC0526
GC1526
GC1026
GC0526

Output Frequency (GHz)

0 2 4 6 8 10 12 14 16 18 20 22 24 26