PMI MODEL LM-1G18G-15-25W-SFF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 1.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 WATTS CW HOUSED WITHIN A COMPACT 1.00” x 1.00” x 0.40” PACKAGE OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.
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TYPICAL CHARACTERISTICS ON

OUTLINE DRAWING

DESCRIPTION
THE 1.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN
INPUT POWER OF 25 WATTS CW HOUSED WITHIN A COMPACT 1.00" x 1.00" x 0.40"
PACKAGE OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

SPECIFICATIONS
- FREQUENCY RANGE: 1.0 TO 18.0 GHz
- RF INPUT POWER: 25 WATTS CW MAXIMUM
- PEAK INPUT POWER: 250 WATTS MAXIMUM
- RF LEAKAGE: +15 dBm TYPICAL
- RECOVERY TIME: 100 ns TYPICAL
- INSERTION LOSS @ -20 dBm INPUT POWER: 2.5 dB MAXIMUM
- VSWR @ -20 dBm INPUT POWER: 2.0:1 MAXIMUM
- CONNECTORS: SMA FEMALE
- SIZE (EXCLUDING CONNECTORS): 25.4mm x 25.4mm x 10.16mm
- FINISH: GOLD PLATED

ENVIRONMENTAL RATINGS
- TEMPERATURE: -55 °C TO +85 °C (OPERATING)
- -65 °C TO +125 °C (NON-OPERATING)
- HUMIDITY: MIL-STD-202, METHOD 1038 COND. B
- SHOCK: MIL-STD-202, METHOD 2138 COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLING: MIL-STD-202, METHOD 107A COND. A

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ISO 9001 CERTIFIED

OUTLINE DRAWING

REVISIONS

<table>
<thead>
<tr>
<th>REVISION</th>
<th>DESCRIPTION</th>
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<td>A1</td>
<td>ORIGINAL RELEASE</td>
<td>12/24/11</td>
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NOTE: SPECIFICATIONS MAY VARY UNDER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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## TEST DATA SUMMARY

<table>
<thead>
<tr>
<th>TEST ITEM</th>
<th>PARAMETERS</th>
<th>SPECIFIED VALUE</th>
<th>TEST MEASUREMENT</th>
<th>TEST RESULT</th>
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<tr>
<td>1</td>
<td>Frequency Range</td>
<td>1.0 to 18.0 GHz</td>
<td>1.0 to 18.0 GHz</td>
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<td>2</td>
<td>RF Input Power</td>
<td>25 Watts CW Maximum</td>
<td>45 dBm (31.6 W)</td>
<td>PASS</td>
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<td>3</td>
<td>Peak Input Power</td>
<td>250 W Maximum (@ 10% Duty Cycle &amp; 40 μs Pulse Width)</td>
<td>54 dBm (251.1 W)</td>
<td>PASS</td>
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<tr>
<td>4</td>
<td>RF Leakage</td>
<td>+15 dBm Typical</td>
<td>+15.8 dBm</td>
<td>PASS</td>
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<tr>
<td>5</td>
<td>Recovery Time</td>
<td>100 ns Typical</td>
<td>&lt; 100 ns</td>
<td>PASS</td>
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<tr>
<td>6</td>
<td>Insertion Loss</td>
<td>2.5 dB Maximum (@ -20 dBm Input Power)</td>
<td>2.45 dB</td>
<td>PASS</td>
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<tr>
<td>7</td>
<td>VSWR</td>
<td>2.0:1 Maximum (@ -20 dBm Input Power)</td>
<td>1.81:1</td>
<td>PASS</td>
</tr>
</tbody>
</table>
TYPICAL CHARACTERISTICS ON LM-1G18G-15-25W-SFF

RETURN LOSS (OPERATIONAL PASSBAND)

FREQUENCY (GHz)

RECOVERY TIME RESPONSE (>100 ns)
TYPICAL CHARACTERISTICS
ON

CW INPUT POWER vs OUTPUT POWER @ 15 GHz

PEAK* INPUT POWER vs OUTPUT POWER @ 15 GHz

* = 250 W @ 10% DUTY CYCLE & 40 µs PULSE WIDTH