PMI MODEL: LM-32G36G-14-20W-SMT IS A HIGH POWER LIMITER CAPABLE OF WITHSTANDING AN INPUT POWER LEVEL OF 20 WATTS, 30 µs PULSE WIDTH, 30% DUTY CYCLE. THIS MODEL OPERATES IN THE 32 GHz TO 36 GHz FREQUENCY RANGE. THE INSERTION LOSS IS 2.0 dB MAXIMUM, VSWR OF 2.0:1, AND 250 ns RESPONSE TIME. THIS LIMITER IS SUPPLIED MOUNTED IN A TEST FIXTURE.

July 5th, 2016

Designed By:
Dr. Ashok Gorwara
Sebastian Palacio
Mathew Berry
TYPICAL CHARACTERISTICS ON
LM-32G36G-14-20W-MT

DESCRIPTION
PMI Model: LM-32G36G-14-20W-SMT is a high power limiter capable of withstanding an input power level of 20 Watts, 30 µs pulse width, 30% duty cycle. This model operates in the 32 GHz to 36 GHz frequency range. The insertion loss is 3.0 dB maximum, VSWR of 2.0:1, and 260 ns response time. This limiter is supplied mounted in a test fixture.

SPECIFICATIONS
- Frequency Range: 32 GHz to 36 GHz
- Insertion Loss: 2.0 dB maximum
- Peak Power: 20 Watts (43 dBm)
- Pulse Width: 30 µs
- Duty Cycle: 30%
- Leakage Power: +14 dBm Typical
- 1 dB Recovery Time: 250 ns Maximum
- VSWR: 2.0:1
- Size: (L) 0.270" x (W) 0.198" x (H) 0.016" without carrier
  (L) 1.200" x (W) 0.698" x (H) 0.200" inside test fixture.

ENVIRONMENTAL RATINGS
- Temperature: -55 °C to +85 °C (operating)
  -55 °C to +125 °C (storage)
- Temperature Cycle: MIL-STD-202, Method 107D Cond. A

ENVIRONMENTAL RATINGS
- Temperature: -55 °C to +85 °C (operating)
  -55 °C to +125 °C (storage)
- Temperature Cycle: MIL-STD-202, Method 107D Cond. A

NOTE: SPECIFICATIONS WILL VARY UNDER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE ON REVISION

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ISO 9001 CERTIFIED

PRODUCT FEATURE
LM-32G36G-14-20W-SMT

PMI CONFIDENTIAL AND PROPRIETARY
TYPICAL CHARACTERISTICS
ON
LM-32G36G-14-20W-MT

DESCRIPTION
PMI MODEL LM-32G36G-14-20W-SMT IS A HIGH POWER LIMITER CAPABLE OF WITHSTANDING AN INPUT POWER LEVEL OF 20 WATTS, 25 µS PULSE WIDTH, 20% DUTY CYCLE. THIS MODEL OPERATES IN THE 32 GHz TO 36 GHz FREQUENCY RANGE, THE INSERTION LOSS IS 2.0 dB MAXIMUM, VSWR OF 2.0:1, AND 250 ns RESPONSE TIME. THIS LIMITER IS SUPPLIED MOUNTED IN A TEST FIXTURE.
<table>
<thead>
<tr>
<th>TEST. ITEM NO</th>
<th>PARAMETERS</th>
<th>SPECIFIED VALUE</th>
<th>TEST RESULTS</th>
<th>QA QC</th>
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<td>Frequency Range</td>
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<td>2</td>
<td>Insertion Loss</td>
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<td>Peak Power</td>
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<td>7</td>
<td>1 dB Recovery Time</td>
<td>250 ns Max</td>
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<td>1.44:1</td>
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<td>See Plot</td>
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</tr>
</tbody>
</table>
Insertion Loss and Return Loss
*Insertion Loss from Fixture removed*
**Insertion Loss and Return Loss**

*Insertion Loss from Fixture included*
TYPICAL CHARACTERISTICS ON
LM-32G36G-14-20W-MT

*Tested at CW
Recovery Time

200ns per Div.

50ns per Div.