PLANAR MONOLITHICS INDUSTRIES MODEL LM-30M3G-C3-1 IS A HIGH POWER LIMITER THAT WORKS FROM 30MHz TO 3GHz. THIS LIMITER HANDLES 5 WATTS CW WITH A LEAKAGE POWER OF +10dBm TYP.

September 19, 2014

Designed By: PMI Engineering
TYPICAL CHARACTERISTICS
ON
LM-30M3G-C3-1

DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL LM-30M3G-C3-1 IS A HIGH POWER LIMITER THAT WORKS FROM 30MHz TO 3GHz. THIS LIMITER HANDLES 5 WATTS CW WITH A LEAKAGE POWER OF +10 dBm TYP.

SPECIFICATIONS:
* FREQUENCY: 30MHz TO 3GHz
* INSERTION LOSS: 1.2 dB (MAX.)
* PEAK POWER: 5 WATTS CW @ +25°C
* LEAKAGE POWER: +10 dBm TYP.
* RECOVERY TIME: 1us MAX.
* VSWR: 1.5:1 (MAX.)
* DC BLOCKING: INPUT AND OUTPUT
* CONNECTORS: 2.92mm (M) Input and 2.92mm (F) Output
* SIZE: 1.314 (LENGTH) X .375 (DIAMETER)
* WEIGHT: <1 OZ. TYPICAL

ENVIRONMENTAL RATINGS
* TEMPERATURE: -55°C TO +125°C (OPERATING) DERATE POWER HANDLING TO ZERO @ +125°C
* HUMIDITY: MIL-STD-202F, METHOD 103B, COND. B
* SHOCK: MIL-STD-202F, METHOD 213B, COND. B
* VIBRATION: MIL-STD-202F, METHOD 204B, COND. B
* ALTITUDE: MIL-STD-202F, METHOD 105C, COND. B
* TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D, COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.
<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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</thead>
<tbody>
<tr>
<td>1</td>
<td>Frequency:</td>
<td>30MHz to 3GHz</td>
<td>30MHz to 3GHz</td>
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<td></td>
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<td></td>
<td>See Plot</td>
<td></td>
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<tr>
<td>2</td>
<td>Insertion Loss:</td>
<td>1.2dB (MAX.)</td>
<td>0.78dB</td>
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<td>See Plot</td>
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<tr>
<td>3</td>
<td>Peak Power:</td>
<td>5 WATTS CW @ +25ºC</td>
<td>5 WATTS CW</td>
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<tr>
<td>4</td>
<td>Leakage Power:</td>
<td>+10dBm Typ.</td>
<td>+10dBm Typ.</td>
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<td>See Plot</td>
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<tr>
<td>5</td>
<td>Recovery Time:</td>
<td>1us MAX.</td>
<td>45ns</td>
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<td>See Plot</td>
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<tr>
<td>6</td>
<td>VSWR:</td>
<td>1.5:1 (MAX.)</td>
<td>1.38:1</td>
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<tr>
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<td></td>
<td>See Plot</td>
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</tbody>
</table>
Insertion Loss
TYPICAL CHARACTERISTICS
ON
LM-30M3G-C3-1

LIMITER RESPONSE WITH FREQUENCY

OUTPUT POWER (dBm)

RF INPUT POWER (dBm)

30MHz
80MHz
600MHz
1GHz
2GHz
3GHz
P/I-P/O
Recovery

100ns per Div.