DESCRIPTION

PMI MODEL N*: LM-10M35G-15DBM-4W-292FF IS A PASSIVE LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 10 MHz TO 35 GHz. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 TO 4 WATTS CW (20MHz - 18GHz) AND 50 TO 40 WATTS PULSE PEAK POWER (20MHz - 18GHz), WITH 1 µs PW, 1% DUTY CYCLE, THIS LIMITER USES 2.92 FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 10MHz TO 35.0 GHz
- POWER HANDLING: 25 Watts CW Max. (20MHz) (*See Note 1) 10 Watts CW Max. (1 GHz) 8 Watts CW Max. (2 GHz) 5 Watts CW Max. (4 GHz) 4 Watts CW Max. (8 to 18 GHz)
- PEAK INPUT POWER: 50 Watts Peak Max (20MHz to 12GHz) 40 Watts Peak Max. (18GHz) (*See Note 2) (1µs Pw, 1% Duty Cycle)
- RECOVERY TIME: 150 ns Typ.
- INSERTION LOSS @ -10 dBm Input Power: 10MHz to 8 GHz = 1.30 dB Max. 8 to 18 GHz = 2.30 dB Max. 18 to 25 GHz = 2.60 dB Max. 25 to 35 GHz = 4.0 dB Max.
- VSWR In/ Out @ -10 dBm Input Power: 2.0:1 Max.

* NOTE 1: 25 Watts from 20MHz, 10 Watts at 1GHz, 8 Watts at 2GHz, 5 Watts at 4GHz, 4 Watts at 8 to 18 GHz, +20dBm 20 to 35 GHz (Theoretically it can handle 4 Watts Typical up to 35GHz)
* NOTE 2: No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 40 Watts Typically 1µs PW, 1% Duty Cycle for Frequency Range 18GHz to 35GHz

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +85 °C (OPERATING) -65 °C TO +125 °C (NON-OPERATING)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B 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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY
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HOUSING WITH CARRIER

MECHANICAL OUTLINE

ALL DIMENSIONS ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.010 [0.254]

HOUSING WITHOUT CARRIER (SURFACE MOUNT)

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