DESCRIPTION

PMI MODEL: LM-10M37G-15DBM-10W-AGAL IS A PASSIVE LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 10 MHz TO 37 GHz. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 TO 10 WATTS CW (20MHz - 1GHz) AND 50 TO 40 WATTS PULSE PEAK POWER (20MHz - 18GHz), WITH 1µs PW, 1% DUTY CYCLE, THIS LIMITER USES 2.92 FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: 10MHz TO 37.0 GHz
- POWER HANDLING: 25 Watts CW Max. (20MHz - 1GHz)
  10 Watts CW Max (2 TO 18 GHz)
  (*See Note 1)
- PEAK INPUT POWER: 50 Watts Peak Max (20MHz to 12GHz)
  40 Watts Peak Max. (18GHz)
  (*See Note 2)
- RECOVERY TIME: 150 ns Typ.
- INSERTION LOSS: 10MHz to 8 GHz = 1.00 dB Max.
  @ (-10 dBm Input Power)
  8 to 18 GHz = 2.00 dB Max.
  18 to 30 GHz = 2.70 dB Max.
  30 to 37 GHz = 4.30 dB Max.
- VSWR In/Out @ -10 dBm Input Power: 1.8:1 Max.

* NOTE 1: 25 Watts from 20MHz to 1 GHz, 10 Watts from 2GHz to 18 GHz, +28 dBm from 20 to 30 GHz and +27dBm from 35 to 37dBm (Theoretically it can handle 10 Typical Watts up to 37GHz)

* 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 37GHz

SPECIFICATIONS

- FLAT LEAKAGE POWER: 20 MHz = +18 dBm Typ.
  1 GHz = +20 dBm Typ.
  4 GHz = +16 dBm Typ.
  8 GHz = +13 dBm Typ.
  18 GHz = +10 dBm Typ.
  20 GHz = +10 dBm Typ.
  28 GHz = +10 dBm Typ.
  30 GHz = +10 dBm Typ.
  35 GHz = +10 dBm Typ.
  37 GHz = +8 dBm Typ.
- P1dB: +6 dBm Min.
- RF CONNECTORS: 2.92 FEMALE
- FINISH: GOLD PLATED

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
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HOUSING WITH CARRIER

HOUSING WITHOUT CARRIER (SURFACE MOUNT)

MECHANICAL OUTLINE

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