DESCRIPTION

PMI MODEL NO. LM-2R83R2-316W-20W-PIN is a limiter that operates over the frequency range of 2.8 to 3.2 GHz. This model is outfitted with pins.

SPECIFICATIONS

- **FREQUENCY RANGE:** 2.8 TO 3.2 GHz
- **IMPEDANCE:** 50 Ohms
- **INCIDENT RF PULSE PATTERN 1:** 316 WATTS (+55 dBm) MAX
  - PULSE WIDTH 5μs MAX
  - DUTY CYCLE 1% MAX
  - AVERAGE POWER 3.2W (+35dBm) MAX
- **INCIDENT RF PULSE PATTERN 2:** 20 WATTS (+40 dBm) MAX
  - RANGE OF PULSE WIDTH 100ns TO 130μs
  - DUTY CYCLE 13% MAX
  - AVERAGE POWER 2.0W (+33dBm) MAX
- **FLAT LEAKAGE:** 200mW (+23 dBm) MAX
- **SPIKE LEAKAGE:** 250 mW (+24 dBm) MAX
- **SPIKE ENERGY:** 0.1 ERG MAX
- **RECOVERY TIME:** 100ns
- **VSWR:** 1.5:1 MAX (INPUT AND OUTPUT)
- **INSERTION LOSS:** 0.6 dB MAX (≤-50dBm)
- **CONNECTORS:** 0.012" DIA RF PIN
- **FINISH:** GOLD PLATED OVER NICKEL

*Note: The limiter must be capable of performing to full specification when RF pulse patterns 1 and 2 are applied simultaneously.

ENVIRONMENTAL RATINGS

- **OPERATING TEMPERATURE:** 40 °C TO 90 °C (CASE TEMP)
- **STORAGE TEMPERATURE:** 40 °C TO 70 °C
- **RELATIVE HUMIDITY:** 95% AT +40 °C
- **VIBRATION:** SHALL OPERATE AT FULL SPECIFICATION WITH VIBRATION IN ALL THREE PRINCIPAL AXES WITH
  - Amplitude displacement of ±1 mm at a rate between 2.0 to 13.2 Hz
  - Acceleration of 7 m/s² at a rate of 13.2 TO 100 Hz

MECHANICAL OUTLINE

0.012" DIA RF PIN, 2 PLACES

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PRODUCT FEATURE
LM-2R83R2-316W-20W-PIN

PMI CONFIDENTIAL AND PROPRIETARY