DESCRIPTION
PMI MODEL LM-10M2D5G-100CW-1KWP-SFF IS A RF LIMITER THAT OPERATES IN THE 10MHz TO 2.5GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 100W CW AND 1KW PEAK (1% DUTY CYCLE, 1USEC MAXIMUM PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF 14dBM MAXIMUM AT 10W CW INPUT. THIS MODEL HAS A LOW INSERTION LOSS OF 0.5dB AND A RECOVER TIME OF 2USEC TYPICAL.

SPECIFICATIONS
- FREQUENCY RANGE: 10 MHz TO 2.5GHz
- INSERTION LOSS: 0.5dB TYPICAL
- INPUT/OUTPUT VSWR: 1.3:1 MAXIMUM (AT -10dBm INPUT)
- IMPEDANCE: 50 OHMS
- INPUT POWER: 100 WATTS CW MAXIMUM (NOTES 1, 2)
- 1KW PEAK (1% DUTY CYCLE, 1USEC MAXIMUM PULSE WIDTH) (NOTES 1, 2, 3)
- MAXIMUM FLAT LEAKAGE: 14dBm MAXIMUM AT 10W CW
- P1dB: 0dBm MINIMUM
- RECOVERY TIME: 2usec TYPICAL
- OPTION: HERMETIC OR NOT HERMETIC SEALING AVAILABLE
- FINISH: GOLD PLATED

- NOTES:
  1. POWER RATING AT 25°C: DERATED LINEARLY TO ZERO @ 150°C
  2. HIGH POWER TEST DURATION: FULL RATED POWER FOR 10 SECONDS
  3. HIGH POWER PEAK CONDITIONS: 1KW PEAK (1% DUTY CYCLE, 1USEC MAXIMUM PULSE WIDTH)
  4. EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION.

ENVIRONMENTAL RATINGS
- TEMPERATURE: -55°C TO +85°C (OPERATING)
  -60°C TO +100°C (STORAGE)
- STABILIZATION BAKE: MIL-STD-883, METHOD 1008, TEST COND. B
- THERMAL CYCLE: MIL-STD-883, METHOD 1010, TEST COND. B
- CONSTANT ACCELERATION: MIL-STD-883, METHOD 2001, A (Y1 AXIS)

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

MECHANICAL OUTLINE

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PRODUCT FEATURE
LM-10M2D5G-100CW-1KWP-SFF

ALL DIMENSIONS ARE IN INCHES
TOLERANCES: X.XX ±0.020
X.XXX ±0.010

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