**DESCRIPTION**

PMI MODEL LM–10M2DSG–100CW–1KWP–SFF–TH 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 +13dBM AT 10 WATTS 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)
- **IMPEDEANCE:** 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:** 13dBm MAXIMUM AT 10W CW
- **MAXIMUM FLAT LEAKAGE:** 0dBM MINIMUM
- **RECOVERY TIME:** 2usec TYPICAL
- **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)
- **EXTERNAL VISUAL:** MIL–STD–883, METHOD 2009

**ALL DIMENSIONS ARE IN INCHES TOLERANCES: ±.001 X.005 ±.0005 ±.00005 ±.0001 ±.00001**

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