DESCRIPTION

PMI MODEL: LM-10M50G-18DBM-4W-24FF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 10MHz TO 50.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 4 WATTS CW & 20 WATTS PEAK, PULSE WIDTH 1μ S TO 10μ s, 1% DUTY CYCLE, THIS LIMITER USES 2.40 FEMALE CONNECTORS.

REVISIONS ZONE REV. DESCRIPTION DATE APPROVED A1 ORIGINAL RELEASE 7/81/20 426

MECHANICAL OUTLINE

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

SPECIFICATIONS

• FREQUENCY RANGE: ----- 10MHz TO 50.0 GHz

POWER HANDLING: ----- 4 Watts CW Max. (*See Note 1)

PEAK INPUT POWER: ----- 20 Watts Max. (*See Note 2)

(Pw 1μs, 1% Duty Cycle) Tested up to 18GHz (Pw 10μs, 1% Duty Cycle) Tested up to 8GHz 16 Watts Max. at 18GHz (Pw 10μs, 1% Duty Cycle)

INSERTION LOSS @ -10 dBm Input Power: 10MHz to 18 GHz = 1.50 dB Max.

18 to 40 GHz = 2.20 dB Max. 40 to 50 GHz = 3.40 dB Max

VSWR In/ Out @ -10 dBm Input Power: --- 2.0:1 Max.

• FLAT LEAKAGE POWER: ----- +18 dBm Typ.

• P1dB: -----++15 dBm Typ.

* Note 1:

4 Watts at 18GHz, 5Watts to 12GHz, +20dBm to 40GHz (May Limit for High Power), May Handle +20dBm or more to 50Ghz But no Test Equipment is available.

*Note 2:

No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 15 Watts Typically 1µs PW, 1% Duty Cycle for Frequency Range 18GHz to 50GHz

ENVIRONMENTAL RATINGS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

-65 °C TO +125 °C (NON-OPERATING) HUMIDITY:						
TEMPERATURE:						
• 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					
-65 °C TO +125 °C (NON-OPERATING) HUMIDITY:						

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS	DATE	PRODUCT FEATURE LM-10M50G-18DBM-4W-24FF							
drawn ALC	7/20/20	10MHz to 50.0 GHz High Power Limiter							
REDRAWN		size A	65XQ0		DWG NO.	PRELIMINARY			REV.
ISSUED		SCALE N:S					SHEET	1 OF 1	