

DESCRIPTION

PMI MODEL: LM-2G18G-18-20W-1KWP-SFF IS A HIGH POWER LIMITER THAT OPERATES OVER THE 2.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 20 WATTS CW & 1000 WATTS PEAK, HOUSED WITHIN A COMPACT 1.00" x 1.00" x 0.40" PACKAGE OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 2.0 TO 18.0 GHz
- RF INPUT POWER: ----- +43 dBm CW MAXIMUM
- PEAK INPUT POWER: ----- +50 dBm 10% DC, 40us PW MAXIMUM
- LIMITING THRESHOLD (P1dB): ----- +5.0 dBm MINIMUM
- RF LEAKAGE (FLAT AND SPIKE):----- +18 dBm MAXIMUM
- RECOVERY TIME: ----- 100 ns MAXIMUM
- INSERTION LOSS @ -10 dBm INPUT POWER: - 2.6 dB MAXIMUM
- VSWR @ -10 dBm INPUT POWER: ----- 2.0:1 MAXIMUM (INPUT/OUTPUT)
- INSERTION PHASE: ----- MEASURED AT AN INPUT POWER LEVEL OF 0 dBm WILL BE WITHIN ± 2.0 DEGREES RELATIVE TO THE PHASE MEASURED AT INPUT POWER LEVELS LESS THAN OR EQUAL TO 0 dBm.
- CONNECTORS: ----- SMA FEMALE (REMOVABLE)
- SIZE (EXCLUDING CONNECTORS): ----- 25.4mm x 25.4mm x 10.16mm
1.00" x 1.00" x 0.40"
- FINISH: ----- HERMETICALLY SEALED, PAINTED BLUE / IAW MIL-C-22750, TYPE 1, EPOXY POLIMIDE COATING, OVER IAW MIL-DTL-53022E, TYPE 4, EPOXY POLIMIDE PRIMER. MOUNTING SURFACE FREE OF PAINT CHEMICAL CONVERSION COATED IAW MIL-DTL-5541, TYPE I, CLASS 3.
- WEIGHT:----- 3.0 OZ MAXIMUM

*NO DC BLOCKS ARE USED IN INSIDE THIS LIMITER

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -44 °C TO +78 °C (OPERATING)
-55 °C TO +85 °C (NON-OPERATING)

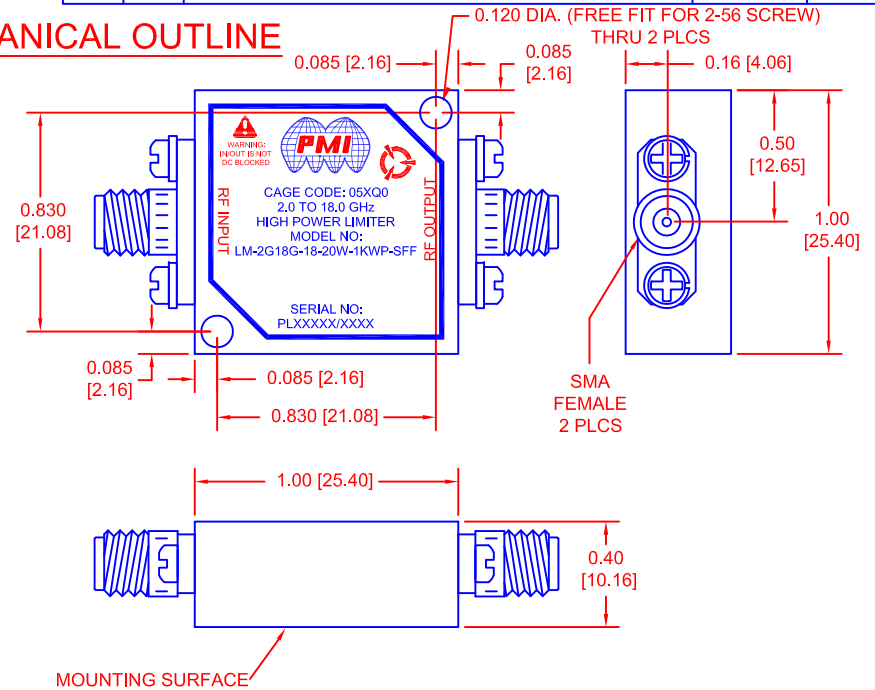
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.010 [0.508]
X.XXX ± 0.005 [0.254]

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	SEVERAL UPDATES	2/21/2019	
	2	MOUNTING HOLES AND TOLERANCES	4/11/2019	
	3	SCD REV A UPDATES	5/1/2019	
	4	UPDATES TO MECHANICAL AND PAINT	8/5/2019	
	5	ECN # 20-0134	7/29/2020	
	6	ECN # 21-0095	6/2/2021	
	7	ECN # 21-0111	7/8/2021	
	8	ECN # 23-0075	4/21/2023	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>JPH</i>		1/28/19	PRODUCT FEATURE LM-2G18G-18-20W-1KWP-SFF 2.0 TO 18.0 GHz HIGH POWER LIMITER			
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27036740	8
ISSUED			SCALE N:S		SHEET 1 OF 1	