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 (By Design 1kW 0.1% DC 1us) 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 ± 1.0 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 AND 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)
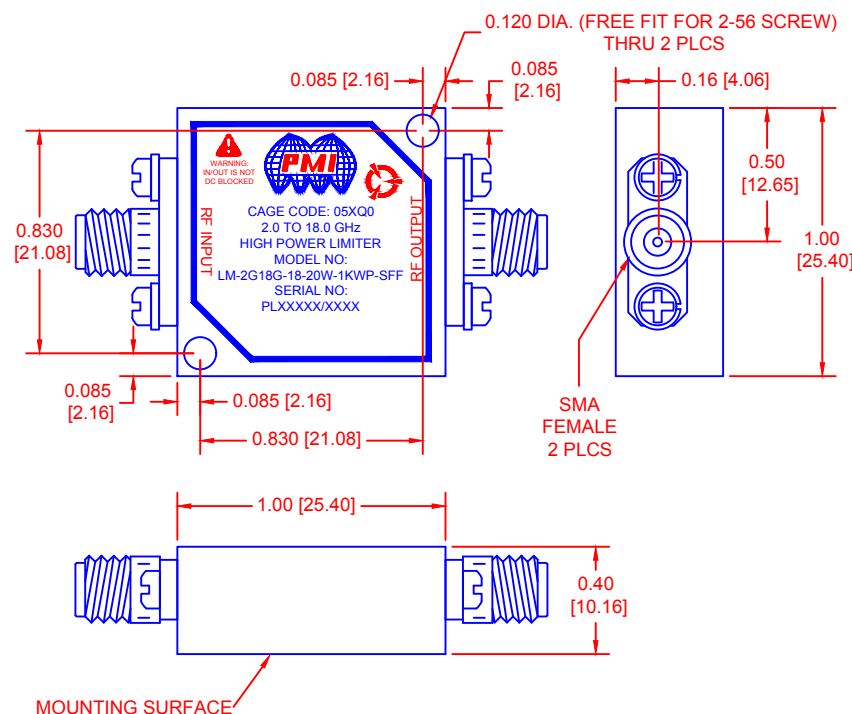 -55 °C TO +85 °C (NON-OPERATING)

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

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/28/2019	
	1	SEVERAL UPDATES	2/21/2019	
	2	MOUNTING HOLES AND TOLERANCES	4/11/2019	
	3	SCD REV A UPDATES	5/1/2019	

MECHANICAL OUTLINE

0.120 DIA. (FREE FIT FOR 2-56 SCREW) THRU 2 PLCS

0.085 [2.16]
0.085 [2.16]
0.16 [4.06]
0.50 [12.65]
1.00 [25.40]

0.830 [21.08]

WARNING: IN/OUT IS NOT DC BLOCKED

RF INPUT
RF OUTPUT

CAGE CODE: 05XQ0
2.0 TO 18.0 GHz
HIGH POWER LIMITER
MODEL NO:
LM-2G18G-18-20W-1KWP-SFF
SERIAL NO:
PLXXXXX/XXXX

0.085 [2.16]
0.085 [2.16]
0.830 [21.08]

SMA FEMALE 2 PLCS

1.00 [25.40]
0.40 [10.16]

MOUNTING SURFACE

PLANAR MONOLITHICS INDUSTRIES, INC.

ALL DIMENSIONS ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.005 [0.254]

TITLE	PRODUCT FEATURE LM-2G18G-18-20W-1KWP-SFF 2.0 to 18.0 GHz High Power Limiter		
APPROVALS	DATE		
DRAWN SPH	1/28/19		
REDRAWN			
ISSUED			

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27036740	3

| SCALE N:S | SHEET 1 OF 1 |