

DESCRIPTION

THE MODEL AMP-218-13-16-12-SFF IS A 2-18 GHz AMPLIFIER WITH A NOMINAL GAIN OF 13 dB, +16 dBm COMPRESSION POINT, AND A NOISE FIGURE OF 4dB MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE:----- 2.0 TO 18.0 GHz
- GAIN:----- 13 dB ± 2 dB
- SMALL SIGNAL GAIN FLATNESS:----- ±1.0 dB MAX
- GAIN STABILITY:----- ±1.0 dB MAX (OVER TEMP, -10 °C TO +70 °C)
- NOISE FIGURE:----- 4 dB MAX 25°C AND 5 dB MAX AT 70°C
- 1 dB GAIN COMPRESSION:----- +16 dBm MIN
- UNCONDITIONAL STABILITY:----- STABLE FOR ANY MAGNITUDE AND PHASE OF SOURCE AND LOAD IMPEDANCE
- OUT OF BAND GAIN:----- SHALL BE NO GREATER THAN 2 dB HIGHER THAN THE GAIN INSIDE THE OPERATING BAND
- INPUT / OUTPUT VSWR:----- INPUT 2.5:1 MAX
OUTPUT 2.3:1 MAX
- MAXIMUM INPUT LEVEL:----- +20 dBm MIN
- DC POWER:----- +12V @ 200 mA MAX
- POWER SUPPLY VARIATIONS:----- ±0.5 V
- RF LEAKAGE LEVELS:----- -60 dBm
- FINISH:----- GOLD PLATED

ENVIRONMENTAL RATINGS

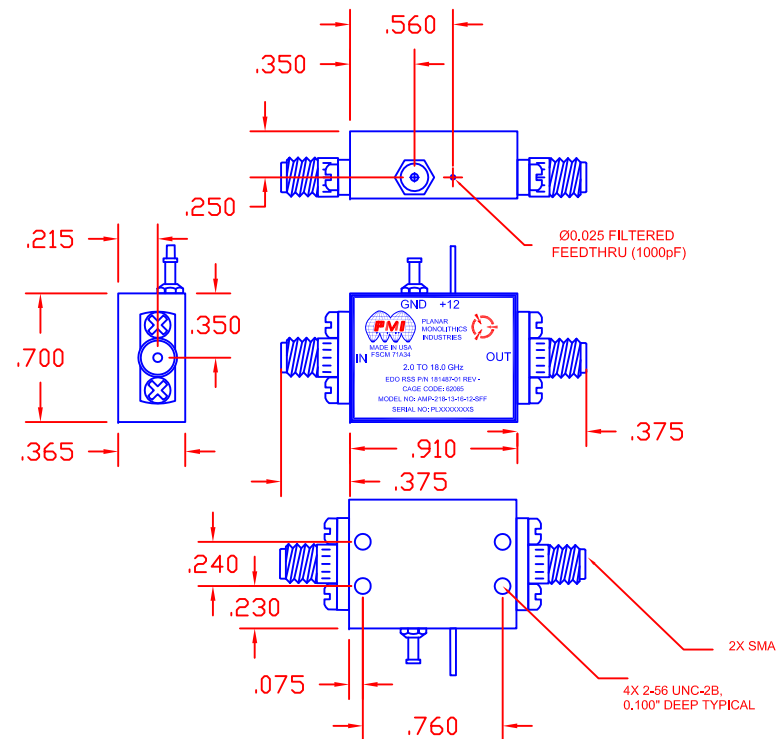
- ALTITUDE: ----- NON-OPERATING: SEA LEVEL TO 40,000 FEET ASL.
OPERATING: SEA LEVEL TO 15,000 FEET ASL
- TEMPERATURE: ----- OPERATING -10° C TO +70° C
STORAGE -54° C TO +85° C
- HUMIDITY:----- 100% RELATIVE HUMIDITY +30° C TO +55° C WITH CONDENSATION, 240 HR EXPOSURE
- FUNGUS: ----- NO FUNGUS NUTRIENT MATERIALS USED
- SALT FOG:----- PER MIL-STD-810 METHOD 509.2, 48 HR EXP.
- VIBRATION, SINUSOIDAL:----- .02" (DOUBLE AMPLITUDE) FROM 5-14 Hz 2.0G FROM 14 TO 33 Hz
- VIBRATION, RANDOM:----- 0.04 g SQ/Hz FROM 60Hz TO 350 Hz, DECREASING AT 3 dB PER OCTAVE FROM 60 TO 20 Hz AND 350 Hz TO 2 kHz, 6 grms TOTAL
- FUNCTIONAL SHOCK:----- 30 G (6 SHOCKS PER AXIS. 6-9 msec DURATION
- EXPLOSIVE ATMOSPHERE:----- PER MIL-STD-810, METHOD 511.2 PROCEDURE 1
- ESS:----- EDO RSS SPECIFICATION 122026 PARAGRAPH 4.2

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	01/14/16	JM



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>jk</i>		01/14/16	PRODUCT FEATURE AMP-218-13-16-12-SFF		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	71A34	27028873
			SCALE	N:S	SHEET 1 OF 1
					REV. 1