

DESCRIPTION

PMI MODEL PEC-15-400M470M-37-12V-SFF IS A SINGLE STAGE BALANCED GaAs MESFET LINEAR POWER AMPLIFIER MODULE OPERATING IN THE FREQUENCY OF 400 MHz TO 470 MHz, PROVIDING TYPICAL 15 dB OF SMALL SIGNAL GAIN, +38 dBm OF OUTPUT POWER AT 1 dB GAIN COMPRESSION, EXCELLENT GAIN FLATNESS AND GOOD VSWR AT BOTH INPUT AND OUTPUT..

SPECIFICATIONS

- FREQUENCY RANGE: 400 MHz – 470 MHz
- P1dB COMPRESSION POINT: +37.0 dBm MIN.; +38.0 dBm TYP.
- OUTPUT IP3: +45.0 dBm MIN.; +50.0 dBm TYP.
- NOMINAL SS GAIN @25°C: 10.0 dB MIN.; 15.0 dB TYP
- GAIN FLATNESS OVER FREQUENCY: ±0.75 dB TYP.; ±1.0 dB MAX.
- GAIN VARIATION OVER TEMPERATURE: ±0.5 dB TYP.; ±1.0 dB MAX.
- INPUT VSWR: 1.3:1 TYP.; 1.5:1 MAX.
- OUTPUT VSWR: 1.3:1 TYP.; 1.5:1 MAX.
- REVERSE ISOLATION: 20 dB MIN.; 25 dB TYP.
- SPURIOUS: -60 dBc MAX.
- OPERATING TEMPERATURE: -45°C MIN.; +65°C MAX.
- SURVIVAL TEMPERATURE: -55°C MIN.; +125°C MAX.
- DC VOLTAGE: +11.5V MIN.; +12V TYP.; +13.0V MAX.
- DC SUPPLY CURRENT: 1600mA TYP.; 1900 mA MAX.
- RF INPUT POWER: +25 dBm MAX.
- LOAD VSWR: 3:1 MAX.
- DIMENSIONS: 2.08" X 1.45" X 0.50"
- CONNECTORS: SMA FEMALE
- FINISH: PAINTED GRAY. MOUNTING SURFACE FREE OF PAINT

ENVIRONMENTAL RATINGS

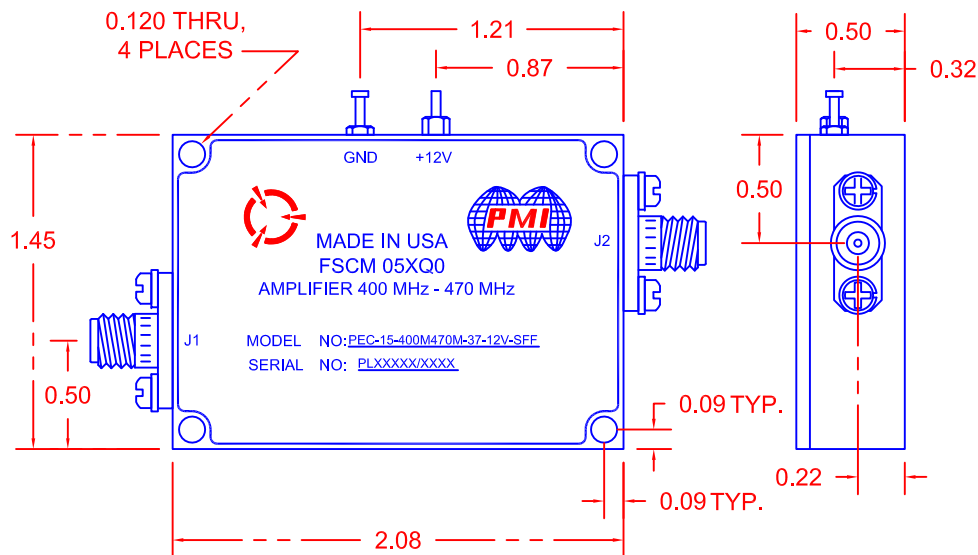
- TEMPERATURE: -45°C TO + 65°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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	1/7/11	

MECHANICAL OUTLINE



*NOTE: EXTERNAL HEATSINK REQUIRED FOR OPERATION

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN	NJA	1/7/11		PRODUCT FEATURE	
CHECKED				PEC 15-400M470M-37-12V-SFF	
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27022091	
SCALE		N: S		SHEET 1 OF 1	
				REV. A1	