

DESCRIPTION

PMI MODEL NUMBER PIQ-2G12G-12B-SFF IS A 12-BIT DIGITAL I/Q MODULATOR THAT OPERATES OVER THE 2.0 TO 12.0GHZ FREQUENCY RANGE.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 12.0 GHz
- CONTROL: 12 BIT I VIA J3 CONNECTOR
12 BIT Q VIA J4 CONNECTOR
- INSERTION LOSS: 10.5dB TYP
- INPUT POWER: -10 dBm to 0 dBm
- PHASE SHIFT: 360°
- ATTENUATION: 16dB TYP
- SWITCHING SPEED: 500ns MAX.
- POWER SUPPLY:
 - +V: +15V
 - V: -15V
- CONNECTORS:
 - RF: SMA FEMALE (J1 & J2)
 - CLOCK OUTPUT: SMA FEMALE (J5)
 - CONTROL & POWER: 15 PIN MICRO-D FEMALE (x2)
MATING CONNECTORS (MALE) SUPPLIED
- OUTPUT CLOCK DATA RATE: 20MHz TYP
- FINISH BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- SIZE: (L) 3.25" x (W) 3.25" x (H) 0.84"

ENVIRONMENTAL RATINGS

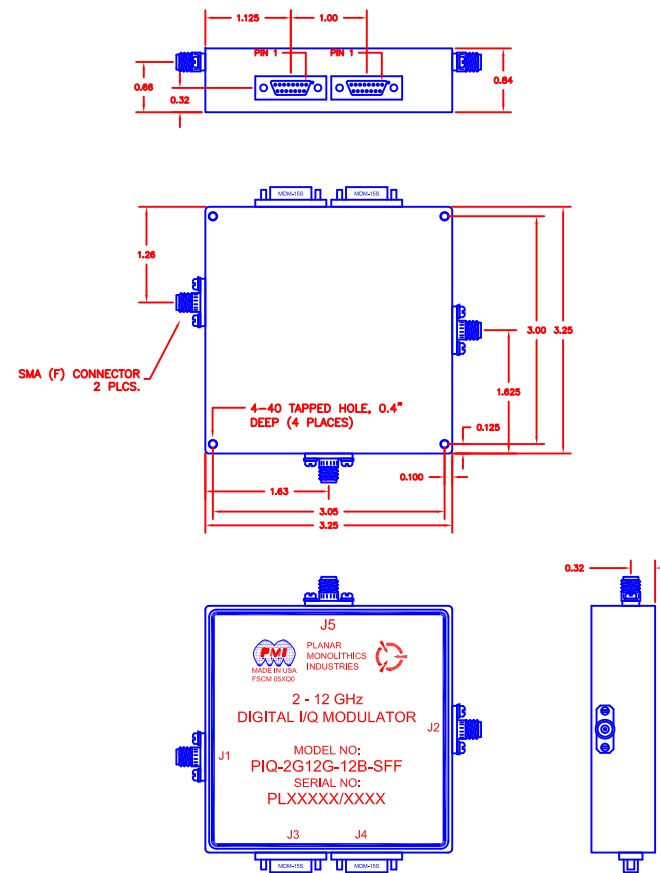
- TEMPERATURE: -55°C TO + 85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. 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	PRELIMINARY	0/19/14	
	2	UPDATED INPUT POWER	11/5/14	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



		TITLE			
APPROVALS		DATE		PRODUCT FEATURE	
DRAWN		06/05/14		PIQ-2G12G-12B-SFF	
CHECKED				2.0-12.0GHz, 12-BIT I/Q MODULATOR	
ISSUED					
		SIZE	FSCM NO.	DWG NO.	REV
		A	05XQ0	PRELIMINARY	2
		SCALE	N:S	SHEET	1 OF 1