

DESCRIPTION

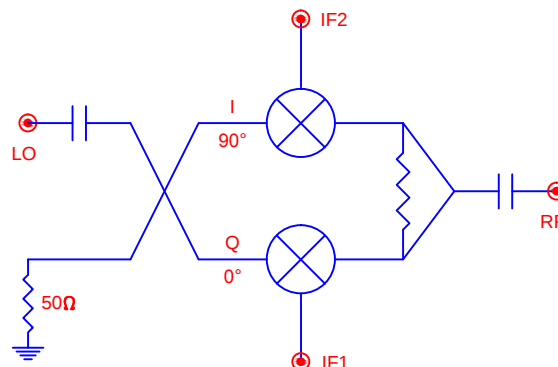
PMI MODEL PIQM-9G9R5G-20dBm IS AN IQ MIXER THAT OPERATES OVER THE 9.0 GHz TO 9.5 GHz FREQUENCY RANGE. IT FEATURES LOW CONVERSION LOSS AND HIGH ISOLATION IN A SLIMLINE PACKAGE. THIS MODEL CAN BE USED AS AN IQ MODULATOR, IQ DEMODULATOR, SIDEBAND MODULATOR OR AN IMAGE REJECT MIXER.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	8/19/15	PJK

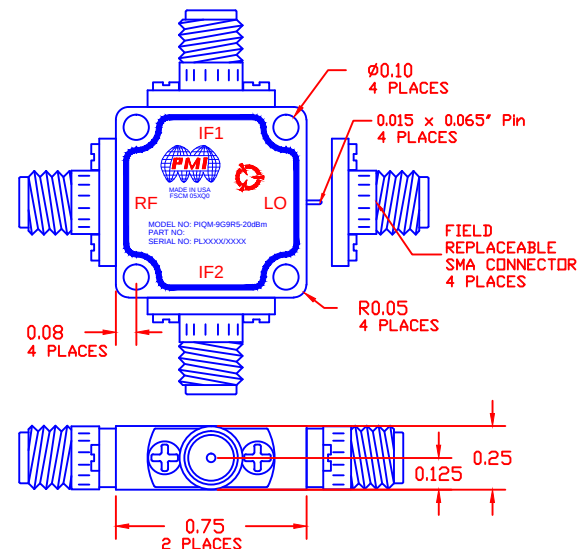
SPECIFICATIONS

- FREQUENCY RF/LO: 9.0 TO 9.5 GHz
- FREQUENCY : DC TO 1 GHz
- CONVERSION LOSS: 9.0 dB TYP
- VSWR: LO 1.8 : 1 TYP
RF 3.0 : 1 TYP
IF 1.8 : 1 TYP
- IMAGE REJECTION: 30 dB TYP
- RF / IF INPUT POWER: 20 dBm MAX
- LO INPUT POWER: 27 dBm MAX
- 1 dB COMPRESSION (LO): 20 dBm
- LO TO RF ISOLATION: 40 dB
- LO TO IF ISOLATION: 20 dB
- IP3 (INPUT): 25dBm (LO = 20dBm)
- AMPLITUDE BALANCE: ± 0.2 dB TYP
- PHASE BALANCE: $\pm 5.0^\circ$ TYP
- SIZE: 0.75" X 0.75" X 0.25"
- FINISH: GOLD PLATED

BLOCK DIAGRAM



MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °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

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN PJK		8/19/15		PRODUCT FEATURE PIQM-9G9R5G-20dBm IQ MIXER	
CHECKED				SIZE A	05XQ0
ISSUED				SCALE N:S	PRELIMINARY
				SHEET 1 OF 1	REV. -