

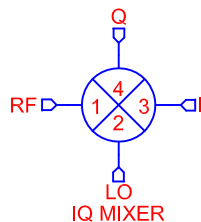
DESCRIPTION

PMI MODEL IQM-4G8G-SFF IS AN I/Q MIXER WHICH OPERATES OVER THE FREQUENCY RANGE OF 4 GHz TO 8 GHz. THIS PRODUCT HAS AN IF FREQUENCY RANGE (QIFM, I/Q DEMODULATOR MODE) OF DC TO 0.5 GHz

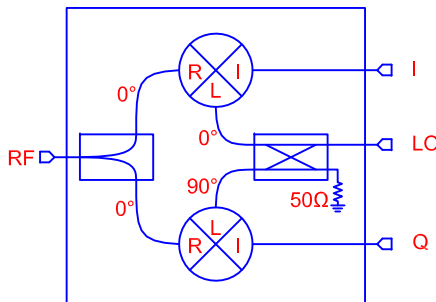
SPECIFICATIONS

- RF/LO FREQUENCY RANGE: 4.0 GHz TO 8.0 GHz
- RF VSWR: 2.0:1 TYP
LO VSWR: 2.5:1 TYP
- CONVERSION LOSS*: 10.5 dB TYP, 11 dB MAX
- LO TO RF ISOLATION: 20 dB MIN, 30 dB TYP
LO TO IF ISOLATION: 25 dB TYP
- AMPLITUDE BALANCE: ± 1.5 dB
- PHASE BALANCE: $\pm 10^\circ$
- IF OUTPUT FREQUENCY: DC TO 0.50 MHz
- CONNECTORS: RF:SMA FEMALE
- SIZE (EXCLUDING CONNECTORS): 0.800" x 0.800" x 0.369"
20.32 mm x 20.32 mm x 9.37 mm
- FINISH: PAINTED BLUE

TRUTH TABLE		
PORT	RF < LO	RF > LO
I	0	-90
Q	-90	0



BLOCK DIAGRAM



ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +100 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

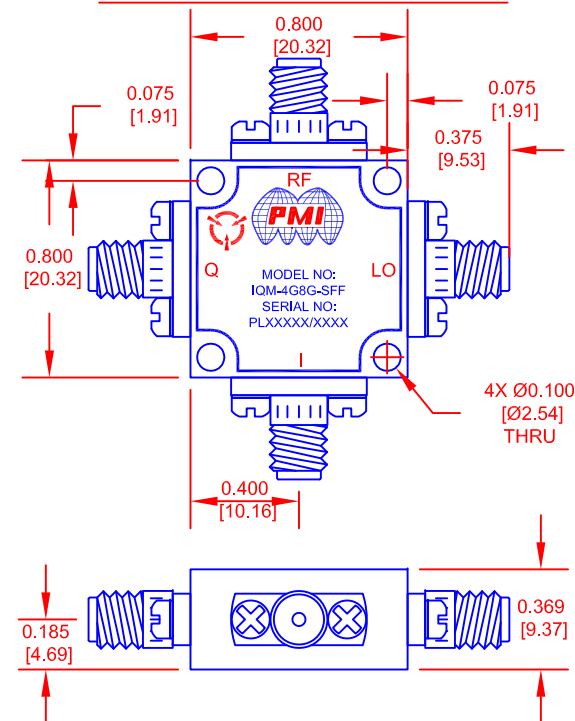
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS
ARE IN INCH [mm]
TOLERANCES:
X.XX ± 0.020 [0.508]
X.XXX ± 0.010 [0.254]

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/27/20	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		DATE		PRODUCT FEATURE	
CHECKED		DATE		IQM-4G8G-SFF	
ISSUED		DATE		PRELIMINARY	
SIZE	A	FSCM NO.	05XQ0	DWG NO.	REV.
SCALE	N:S			SHEET	1 OF 1