

DESCRIPTION

PMI MODEL NO. DBMX-618RF-418LO-DC4IF-20-SFF IS A DOUBLE BALANCED MIXER THAT OPERATES OVER THE FREQUENCY RANGE OF 6.0 TO 26.5 GHZ. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

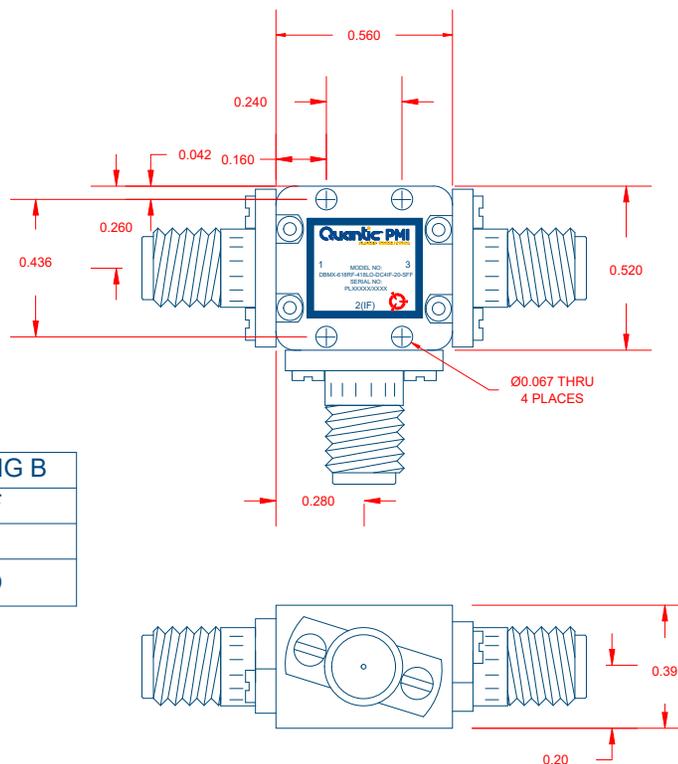
PARAMETER	CONFIG.	CONDITIONS			SPECIFICATIONS
		LO (GHz)	RF (GHz)	IF (GHz)	
CONVERSION LOSS (dB):	A	6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	7.5 dB TYP
	B	6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	9 dB TYP
ISOLATION (dB)					
LO-RF:		6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	47 dB TYP
LO-IF:		6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	34 dB TYP
RF-IF:		6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	35 dB TYP
INPUT IP3 (dBm):	A	6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	+21 dBm TYP
	B	6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	+23 dBm TYP
INPUT 1dB COMPRESSION	A	6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	+9 dBm TYP
	B	6.0 TO 26.5	6.0 TO 26.5	DC TO 9.0	+9 dBm TYP
FINISH:	PAINTED BLUE				
LO INPUT POWER	+13 TO +20 dBm				

PORT	CONNECTOR
LO	SMA FEMALE
RF	SMA FEMALE
IF	SMA FEMALE
NOTE: PACKAGE CONNECTORS ARE NOT REMOVABLE.	

PORT	CONFIG A	CONFIG B
1	LO	RF
2	IF	IF
3	RF	LO

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/21/2020	
	B1	ECN # 24-0043	2/21/2024	
	C1	ECN # 24-0312	10/31/2024	

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: _____ -55 °C TO +100 °C (OPERATING)
- 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: ENVIRONMENTAL RATINGS HAVE NOT BEEN QUALIFIED BY PMI AND BASED ON BEST DESIGN PRACTICES

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PMI CONFIDENTIAL AND PROPRIETARY

7309-A GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.quanticipmi.com
EMAIL: sales@quanticipmi.com
ISO 9001 CERTIFIED

Quantic PMI
PLANAR MONOLITHICS

APPROVALS		DATE	TITLE		
DRAWN <i>EW</i>		01/25/20	OUTLINE DBMX-618RF-418LO-DC4IF-20-SFF		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27038220
ISSUED			SCALE N:S		SHEET 1 OF 1
					REV. C1