

PMI MODEL NO. DBMX-618RF-418LO-DC4IF-20-SFF IS A DOUBLE BALANCED MIXER THAT OPERATES OVER THE FREQUENCY RANGE OF 6.0 TO 20.0 GHz. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

PARAMETER	CONDITIONS			SPECIFICATIONS	DIODE OPTION LO DRIVE LEVEL (dBm)
	LO (GHz)	RF (GHz)	IF (GHz)		
CONVERSION LOSS (dB):	6.0 TO 20.0 6.0 TO 20.0	6.0 TO 20.0 6.0 TO 20.0	DC TO 3.0 3.0 TO 6.0	5.5 dB TYP, 7.5 dB MAX 6.5 dB TYP, 8.5 dB MAX	
ISOLATION (dB)					
LO-RF:	6.0 TO 20.0	6.0 TO 20.0		30 dB MIN, 40 dB TYP	
LO-IF:	6.0 TO 20.0	6.0 TO 20.0		20 dB TYP	
RF-IF:	6.0 TO 20.0	6.0 TO 20.0		25 dB TYP	
INPUT 1 dB COMPRESSION (dBm)*:	6.0 TO 20.0	6.0 TO 20.0		+8 dBm TYP	N (+13 TO +16)
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT (dBm)*:	6.0 TO 20.0	6.0 TO 20.0		+18 dBm TYP	N (+13 TO +16)
FINISH: _____					PAINTED BLUE

<u>PORT</u>	<u>CONNECTOR</u>	<u>MODELS > 26.5 GHz</u>
LO	SMA FEMALE	2.92 mm FEMALE
RF	SMA FEMALE	2.92 mm FEMALE
IF	SMA FEMALE	SMA FEMALE (2.92 IF > 26.5 GHz)
NOTE: PACKAGE CONNECTORS ARE NOT REMOVABLE.		

- 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

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

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

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/24/2020	
	A2	ECN # 23-0003	1/5/2023	

0.200

2-56 UNC-2B x 0.12 DEEP, 2 PLACES

0.200

0.400

0.800

0.236

0.282

0.295

0.055

0.590

0.960

R0.060 4 PLACES

Ø0.080 THRU 4 PLACES

0.400

0.410

0.200

FSCM 650Q2

LD MODEL NO. DEMUX-650Q2-485C-0C4F-20-SFF SERIAL NO. PL1000000000 IF

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Quantic PM
PLANE MONOLITHIC

		TITLE			
APPROVALS		DATE		OUTLINE DBMX-618RF-418LO-DC4IF-20-SFF	
DRAWN EW		01/28/20			
REDRAWN					
ISSUED		SIZE A		FSCM NO. 05XQ0	
				DWG NO. 27038220	
		SCALE N:S		REV. A2	
				SHEET 1 OF 1	