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 20.0 GHz. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

PARAMETER	CONDITIONS		SPECIFICATIONS	DIODE OPTION LO DRIVE LEVEL (dBm)	
	LO (GHz)	RF (GHz)	IF (GHz)		
CONVERSION LOSS (dB):				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 COMPRESSSION (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				

^{*1-}dB COMPRESSION AND THIRD ORDER INTERCEPT ARE DEGRADED FOR LO FREQUENCIE3S BELOW 13.0 GHz

PORT	CONNECTOR	MODELS > 26.5 GHz		
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.				

ENVIRONMENTAL RATINGS

•	TEMPERATURE: ———	-55 °C TO +100 °C (OPERATING)

HUMIDITY: — - MIL-STD-202, METHOD 103B COND. B

- MIL-STD-202, METHOD 213B COND. B SHOCK:—

VIBRATION: — - MIL-STD-202, METHOD 204D COND. B

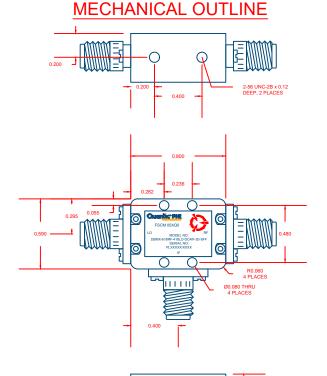
• ALTITUDE:---- MIL-STD-202, METHOD 105C COND. B

TEMPERATURE CYCLE: — MIL-STD-202, METHOD 107D COND. A

ALL DIMENSIONS TOLERANCES: ±0.010

ARE IN INCHES [mm]

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





OUTLINE APPROVALS DATE DBMX-618RF-418LO-DC4IF-20-SFF 01/28/20 REDRAWN SIZE FSCM NO. A2 05XQ0 27038220 SCALE N:S 1 OF 1

0.410

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