

DESCRIPTION

PMI MODEL: DBMX-4G12G-19-8D5-SFF IS A DOUBLE BALANCED MIXER OPERATING OVER THE 4.0 GHz TO 12.0 GHz FREQUENCY RANGE. THIS UNIT PROVIDES A MINIMUM ISOLATION OF 19 dB FROM LO TO RF WHILE MAINTAINING A MAXIMUM NOISE FIGURE OF 8.5 dB. THIS COMPACT MIXER MEASURES 1.000" x 0.725" x 0.510" AND IS OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

SPECIFICATIONS @ 25°C

- INPUT: ----- F1 = 870 MHz (I PORT)
P1 = +5 dBm
F2 = 9.77 TO 10.27 GHz (L PORT)
P2 = +12 dBm
- OUTPUT FREQUENCY: ----- 8.9 TO 9.4 GHz (R PORT)
- FREQUENCY RANGE: ----- 4.0 TO 12.0 GHz
- CONVERSION LOSS: ----- 8.5 dB (I → R)
- ISOLATION: ----- 19 dB (L → R)
30 dB (L → I)
27 dB (I → R)
- NOISE FIGURE: ----- 8.5 dB MAXIMUM
- NOMINAL IMPEDANCE: ----- 50 Ω
- RF INPUT POWER: ----- 200 mW MAXIMUM @ +25°C
- INPUT CURRENT: ----- 100 mADC PEAK
- CONNECTORS: ----- MIL-C-39012 SMA FEMALE 3 PLACES
- SIZE (EXCLUDING CONNECTORS): -- 25.40 mm x 18.41 mm x 12.95 mm
1.000" x 0.725" x 0.510"
- FINISH: ----- PAINTED BLUE

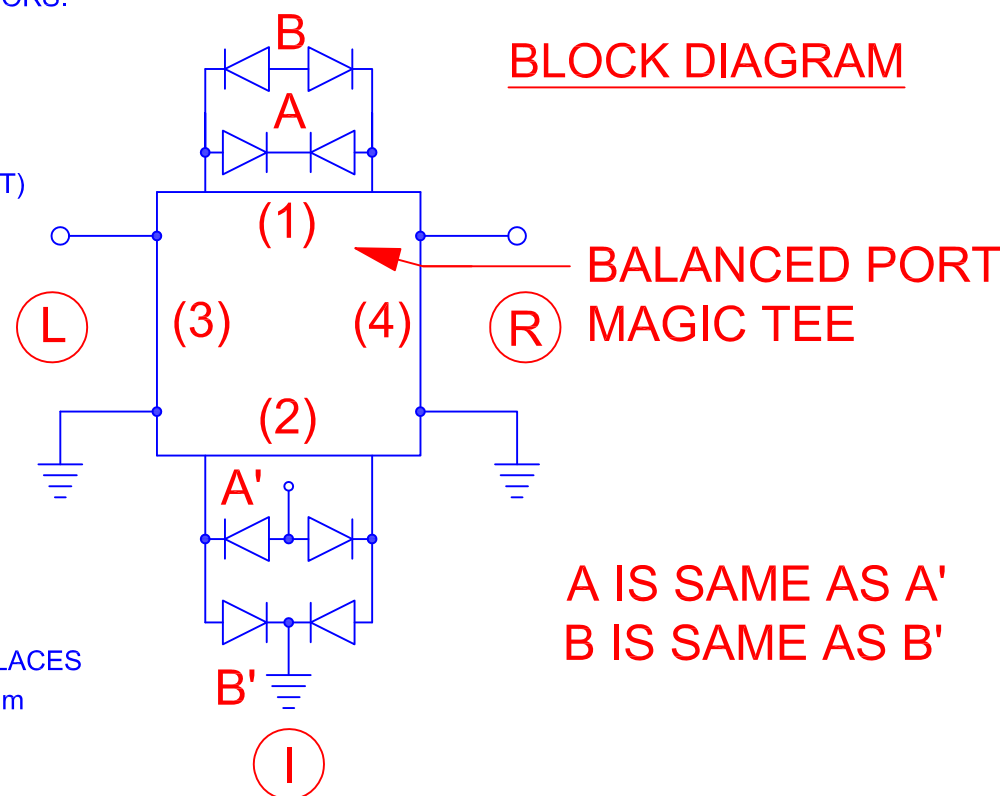
ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -54 °C TO +100 °C (OPERATING)
-65 °C TO +100 °C (NON-OPERATING)
- VIBRATION: ----- MIL-STD-202, METHOD 204 COND. D
- SHOCK: ----- MIL-STD-202, METHOD 213 COND. C
- ALTITUDE: ----- SEA LEVEL TO 10,000 FT (OPERATING)
50,000 FT MAXIMUM (NON-OPERATING)
- HUMIDITY: ----- MIL-STD-202, METHOD 103 COND. B
- CORROSION: ----- MIL-STD-202, METHOD 106

NOTE 1: THE MIXER IS DESIGNED TO MEET THE LISTED ENVIRONMENTAL SPECS.

NOTE 2: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.

| REVISIONS | | | | |
|-----------|------|------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A1 | ORIGINAL RELEASE | 08/04/17 | |
| | | | | |
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PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED

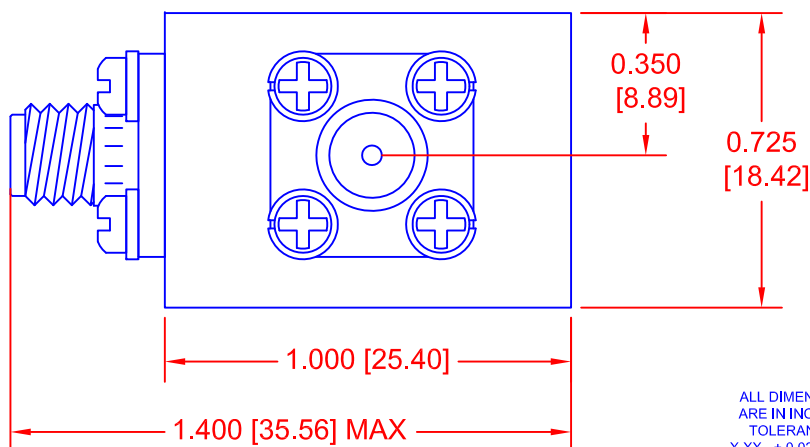
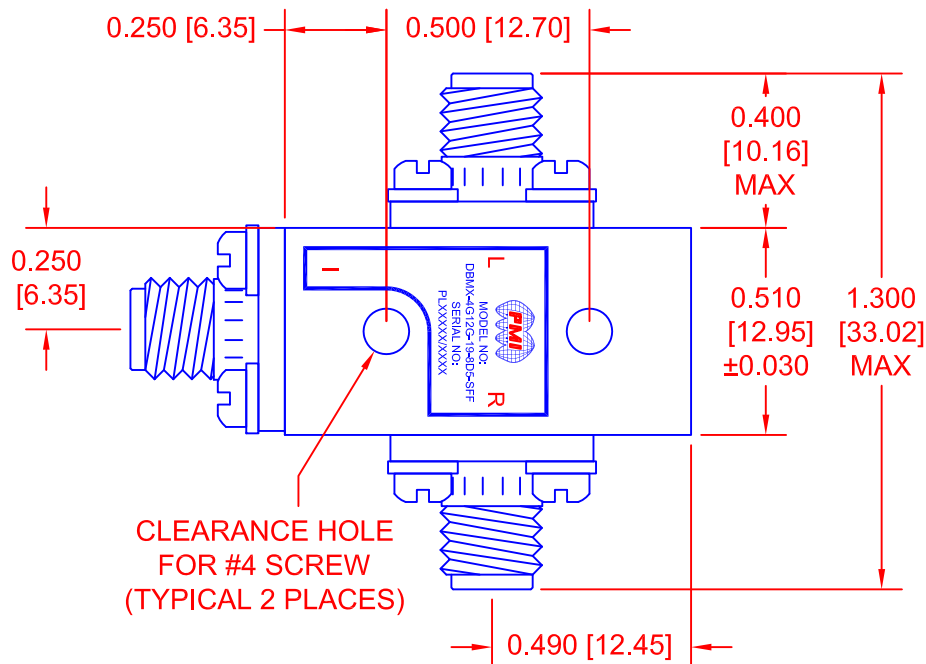


| APPROVALS | | DATE | | TITLE | | PRODUCT FEATURE | |
|-----------|-----|----------|-------|----------|----------|--|--------|
| DRAWN | | M. Berry | | 08/04/17 | | DBMX-4G12G-19-8D5-SFF | |
| CHECKED | | | | | | 4.0 to 12.0 GHz Double-Balanced Mixer Up-Converter | |
| ISSUED | | | | | | | |
| SIZE | A | FSCM NO. | 05XQ0 | DWG NO. | 27033120 | REV. | A1 |
| SCALE | N:S | | | | | SHEET | 1 OF 2 |

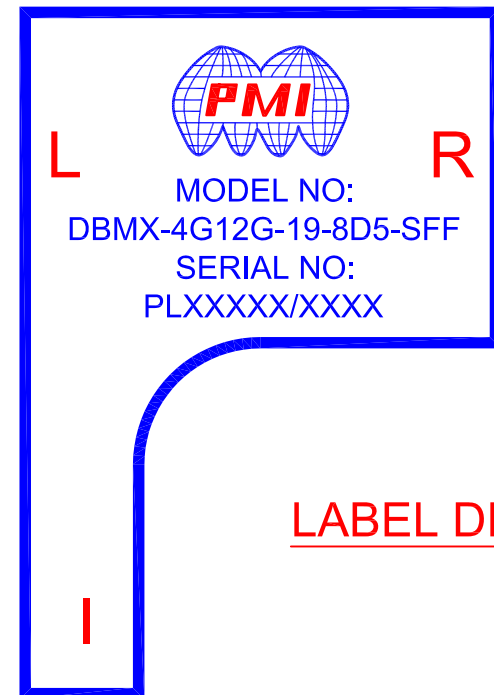
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MECHANICAL OUTLINE



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



LABEL DETAIL

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