

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/15/2025	

**DESCRIPTION:**

PMI MODEL NUMBER DRO-9-13DBM-SF-SAG IS A DIELECTRIC RESONATOR OSCILLATOR WITH A CENTER FREQUENCY OF 9.0 GHz. IT HAS A POWER OUTPUT OF +13 dBm AND A MECHANICAL TUNING RANGE OF ± 20 MHz. THIS MODEL IS OUTFITTED WITH AN SMA FEMALE CONNECTOR.

**SPECIFICATIONS @ 25°C:**

- CENTER FREQUENCY:..... 9 GHz TYP.
- POWER OUTPUT:..... +13 dBm TYP.
- MECHANICAL TUNING RANGE:..... ±20 MHz TYP.
- FREQUENCY STABILITY:..... ±5 ppm/°C MAX.
- PHASE NOISE AT 100 kHz OFFSET:..... -80 dBc/Hz TYP.
- SPURIOUS:..... -75 dBc MAX.
- HARMONICS:..... -25 dBc MAX.
- BIAS VOLTAGE:..... +10 V<sub>DC</sub> MIN.  
+12 V<sub>DC</sub> TYP.  
+15 V<sub>DC</sub> MAX.
- BIAS CURRENT:..... 40 mA TYP.
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE,  
MOUNTING SURFACE NICKEL PLATED



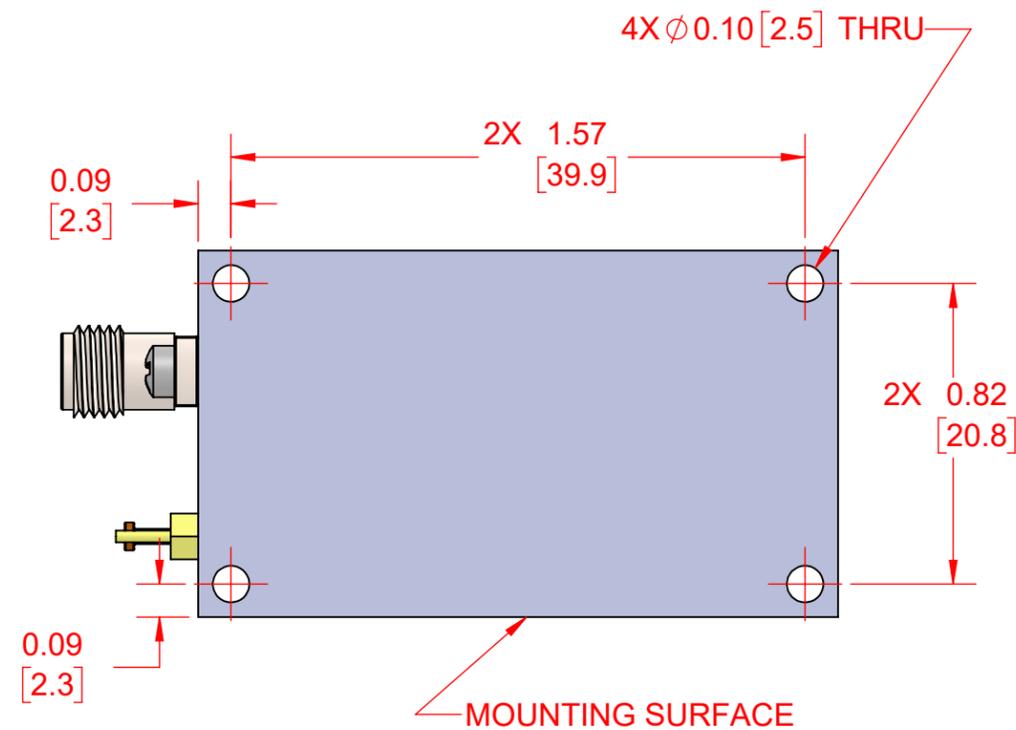
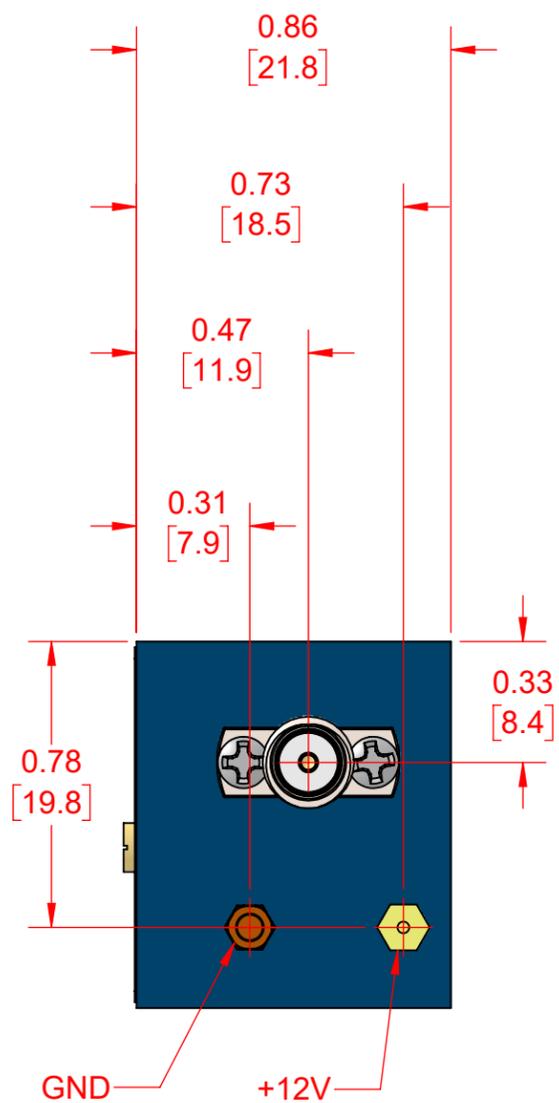
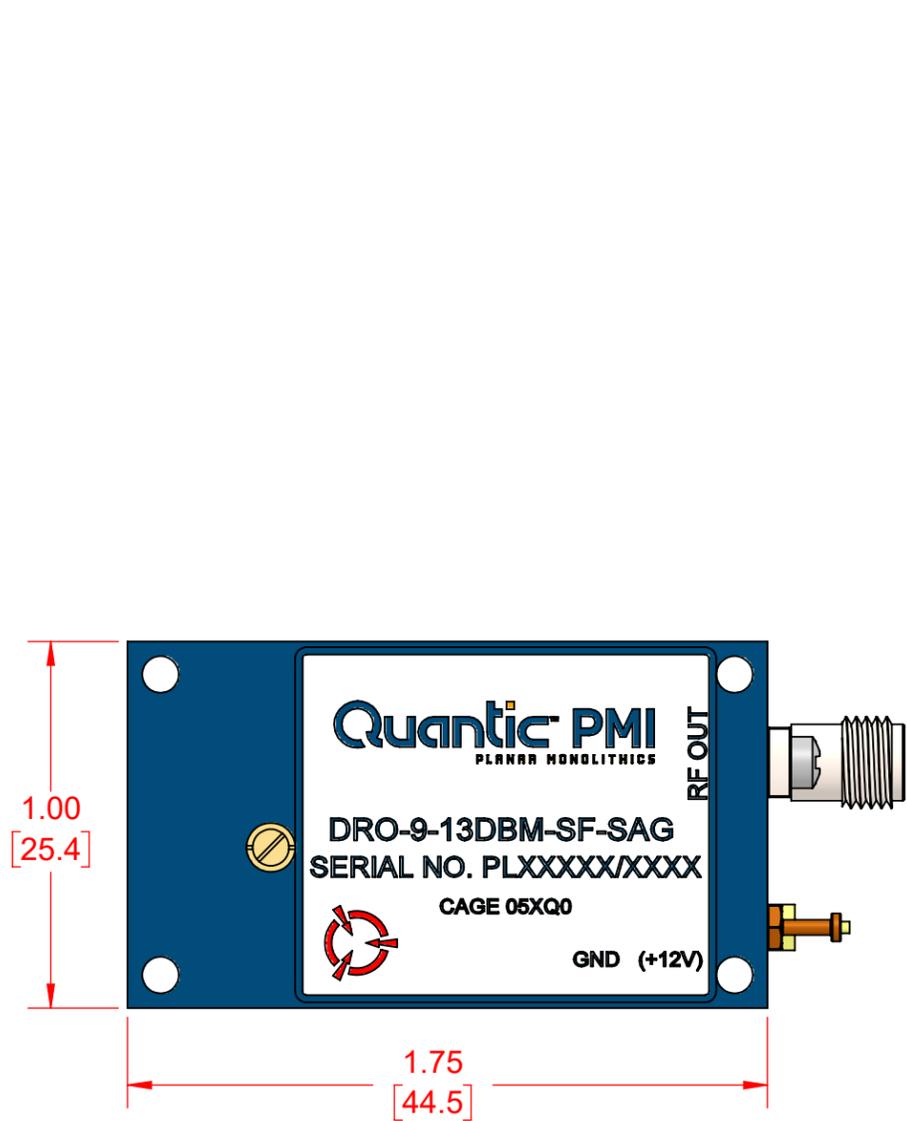
**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... 0°C TO +50°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

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NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±                .XX ± 0.02                ± .XXX ± 0.01		APPROVALS		DATE		<b>Quantic PMI</b> <small>PLANAR MONOLITHICS</small> 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
		DRAWN VP		5/15/2025			
REISSUED		ISSUED		TITLE OUTLINE DRO-9-13DBM-SF-SAG		REV. A1	
SIZE B		FSCM NO. 05XQ0		DWG NO. 27051800		SCALE 3:1 SHEET 1 OF 2	



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TITLE		OUTLINE	
DRO-9-13DBM-SF-SAG			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27051800	A1
SCALE 2:1			SHEET 2 OF 2