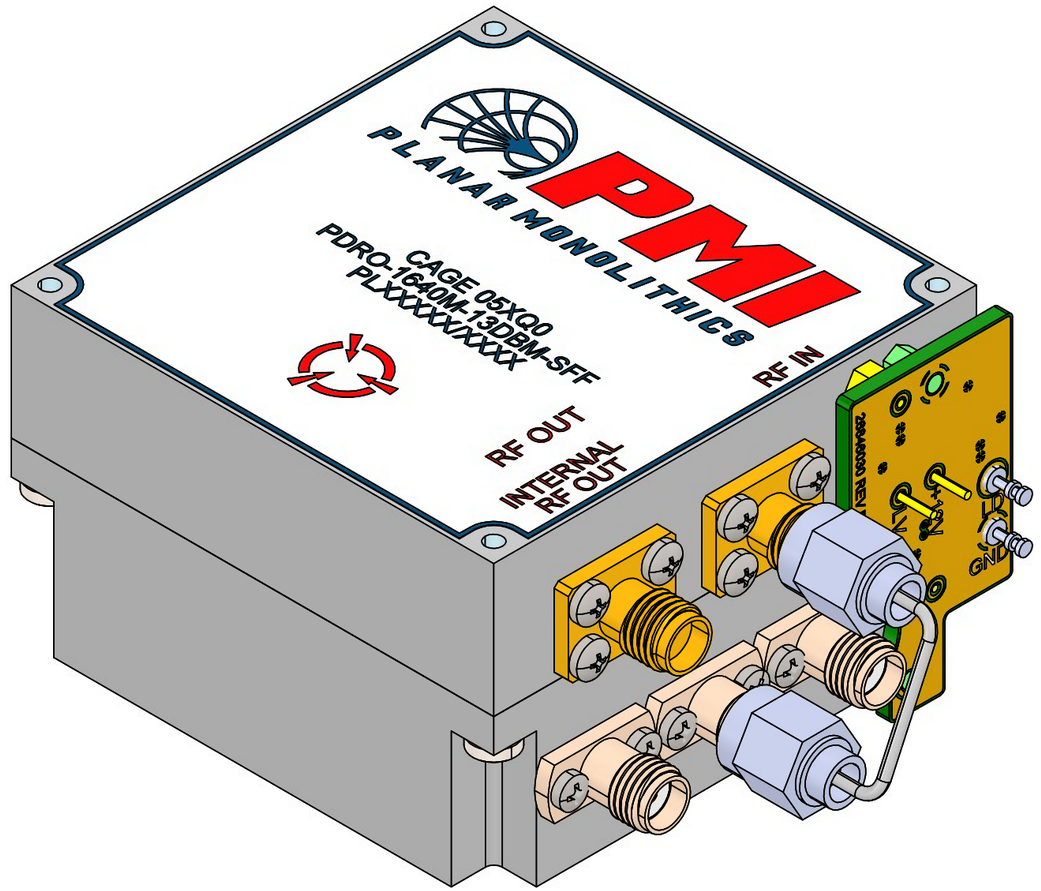
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	10/26/2026	

DESCRIPTION

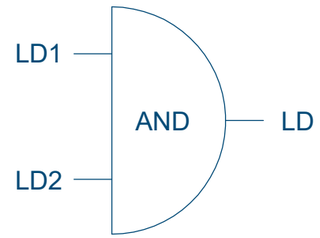
PMI MODEL NUMBER PDRO-1640M-13DBM-SFF IS A PHASE LOCKED OSCILLATOR WITH AN OUTPUT FREQUENCY OF 1640 MHz AND A MINIMUM OUTPUT LEVEL OF +13 dBm. THE PACKAGE SIZE IS 2.25" X 2.25" X 1.41" WITH SMA FEMALE RF CONNECTORS.



SPECIFICATIONS

- OUTPUT FREQUENCY: ——— 1640 MHz
- REFERENCE FREQUENCY: ——— 10 MHz (SINEWAVE)
- INPUT LEVEL: ——— -3 TO +3 dBm
- OUTPUT LEVEL: ——— +13 dBm MIN
- SPURIOUS: ——— -70 dBc MAX
- HARMONICS: ——— -20 dBc MAX
- LOAD VSWR: ——— 1 : 1.5 MAX
- PHASE NOISE: ——— -100 dBc/Hz MAX @ 100 Hz
  -127 dBc/Hz MAX @ 1 kHz
  -136 dBc/Hz MAX @ 10 kHz
  -136 dBc/Hz MAX @ 100 kHz
  -148 dBc/Hz MAX @ 1 MHz
- REFERENCE PHASE NOISE: ——— -115 dBc/Hz MAX @ 10 Hz
  -140 dBc/Hz MAX @ 100 Hz
  -155 dBc/Hz MAX @ 1000 Hz
  -165 dBc/Hz MAX @ 10 kHz
- SUPPLY VOLTAGE: ——— +12V
- CURRENT: ——— 550 mA TYP
- LOCK DETECTOR: ——— TTL HIGH — UNLOCK
  TTL LOW — LOCK
- LOCK VOLTAGE MONITOR: ——— +12V
- CONNECTORS: ——— SMA (F)
- FINISH: ——— NICKEL PLATED

INPUT		OUTPUT
LD1	LD2	LD
TTL LOW	TTL LOW	TTL LOW
TTL LOW	TTL HIGH	TTL LOW
TTL HIGH	TTL LOW	TTL LOW
TTL HIGH	TTL HIGH	TTL HIGH



ENVIRONMENTAL RATINGS

- TEMPERATURE: ——— -40°C TO +70°C (OPERATING)
  -65°C TO +125°C (STORAGE)
- TEMPERATURE CYCLE: ——— MIL-STD-202, METHOD 107 COND. A
- HUMIDITY: ——— MIL-STD-202, METHOD 103 COND. B
- SHOCK: ——— MIL-STD-202, METHOD 213 COND. B
- VIBRATION: ——— MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: ——— MIL-STD-202, METHOD 105 COND. B

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

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± 0.02 .XXX ± 0.01 ANGLES ±

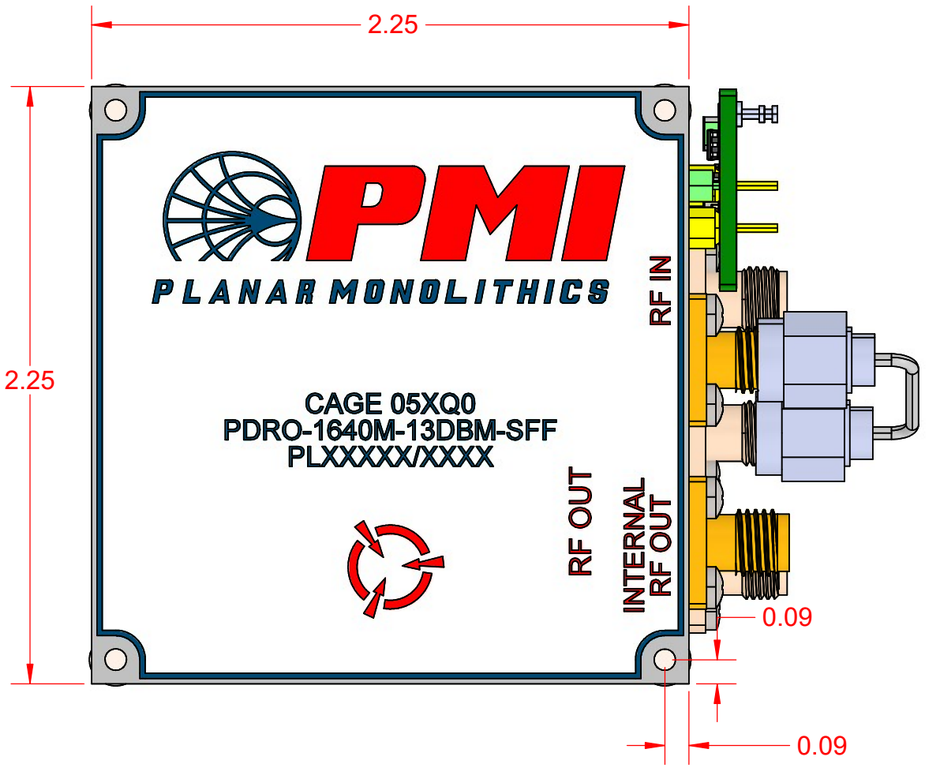
APPROVALS	DATE
DRAWN A. SABADOS	10/26/2026
REDRAWN	
ISSUED	

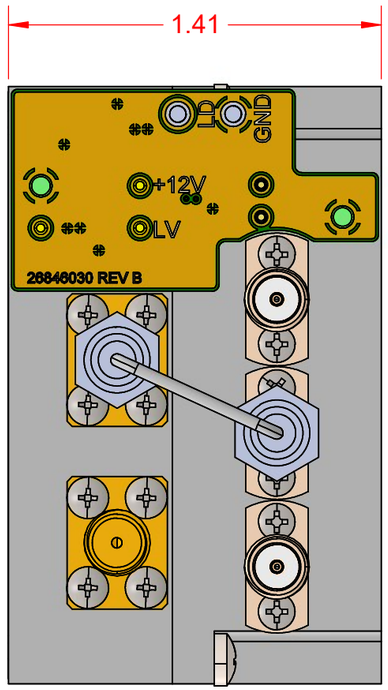
PMI
PLANAR MONOLITHICS
7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA
TEL: (301) 662-5019, FAX: (301) 662-1731
WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED

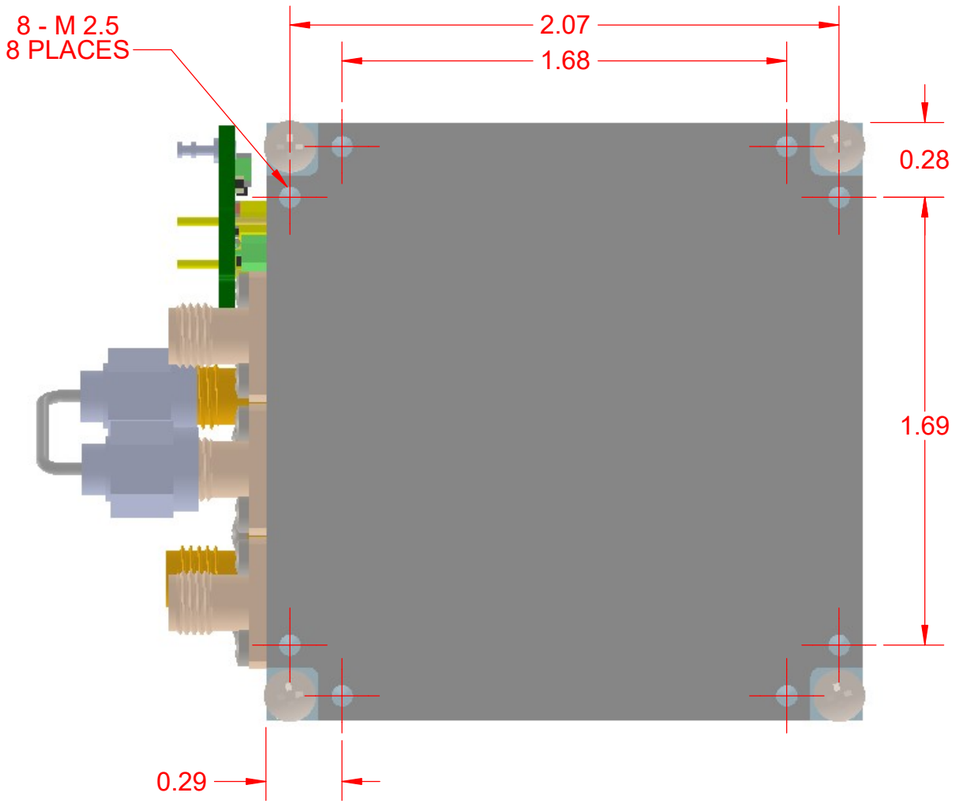
TITLE: PRODUCT FEATURE
PDRO-1640M-13DBM-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	PRELIMINARY	1

SCALE 1:1 SHEET 1 OF 2







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TITLE			
PRODUCT FEATURE PDRO-1640M-13DBM-SFF			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	PRELIMINARY	1
SCALE 1:1			SHEET 2 OF 2