

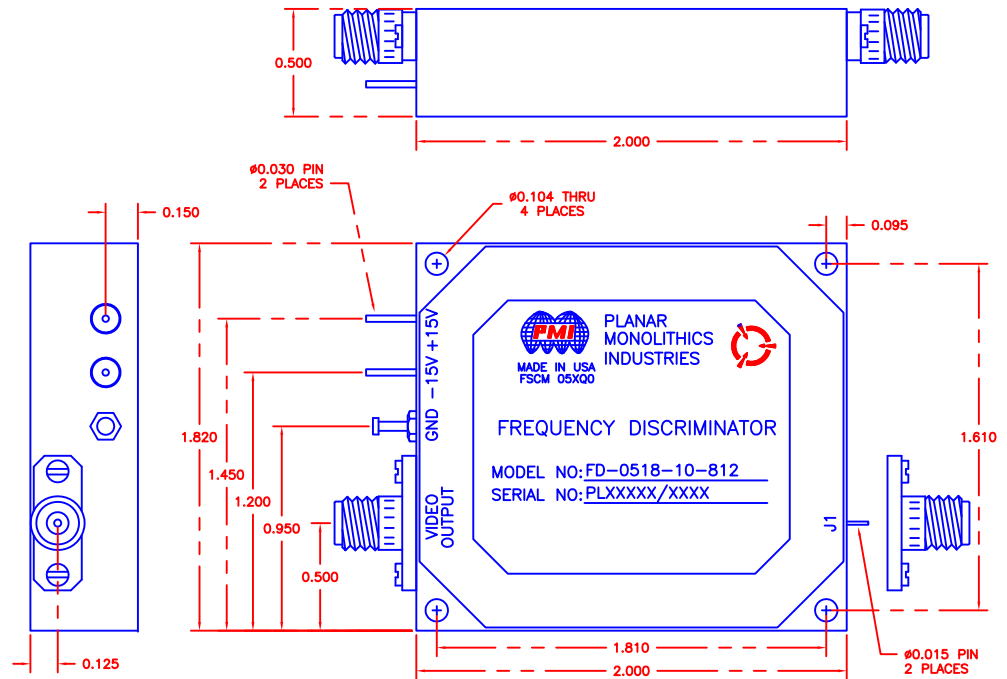
## DESCRIPTION

PMI MODEL FD-0518-10-812 IS A 8 TO 12 GHz FREQUENCY DISCRIMINATOR HAVING A VSWR OF 2.0:1 MAXIMUM AND 1.5:1 TYPICAL AND A FREQUENCY DISCRIMINATOR ACCURACY OF  $\pm 200$  MHz.

## SPECIFICATIONS

- FREQUENCY RANGE ..... 8.0 TO 12.0 GHz
- INPUT VSWR: ..... 2.0:1 MAXIMUM  
1.5:1 TYPICAL
- OPERATING INPUT POWER: ..... +10 dBm NOMINAL,  $\pm 0.1$  dBm
- VIDEO IMPEDANCE: ..... 100 OHMS NOMINAL
- VIDEO OUTPUT RISE TIME: ..... 20 ns
- VIDEO OUTPUT SLOPE: ..... 50 mV/GHz
- FREQUENCY DISCRIMINATOR ACCURACY: .....  $\pm 200$  MHz
- RF INPUT POWER, SURVIVAL: ..... +15 dBm
- POWER PLUS: ..... +15 VDC @ +75 mA
- POWER MINUS: ..... -15 VDC @ -75 mA
- SIZE: ..... 2.00" x 1.80" x 0.50"
- WEIGHT: ..... < 4 oz.
- FINISH: ..... PAINTED GRAY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	06/29/04	



## ENVIRONMENTAL RATINGS

- **TEMPERATURE** ..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- **HUMIDITY** ..... MIL-STD-202F, METHOD 103B COND. B
- **SHOCK** ..... MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION** ..... MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE** ..... MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE** ..... MIL-STD-202F, METHOD 107D COND. A

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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX  $\pm 0.010$   
X.XXX  $\pm 0.005$

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>JDJ</i>		6/29/04	PRODUCT FEATURE FD-0518-10-812 8 - 12 GHz FREQUENCY DISCRIMINATOR			
REDRAWN <i>JDJ</i>		8/10/04	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27016981	A
			SCALE N:S	SHEET 1 OF 1		