

DESCRIPTION

MODEL NUMBER FD-74M-10M-1212 IS A FREQUENCY DISCRIMINATOR THAT OPERATES AT A CENTER FREQUENCY OF 74 MHz. IT HAS A PEAK TO PEAK BANDWIDTH OF 30 MHz AND A LINEAR BANDWIDTH OF 10 MHz MINIMUM. WITH A DYNAMIC RANGE OF -10 TO 0 dBm, THE SENSITIVITY INTO A 93 OHM LOAD IS 100 mV / MHz. THIS UNIT OFFERS A MAXIMUM RISE TIME OF 50 nS.

SPECIFICATIONS

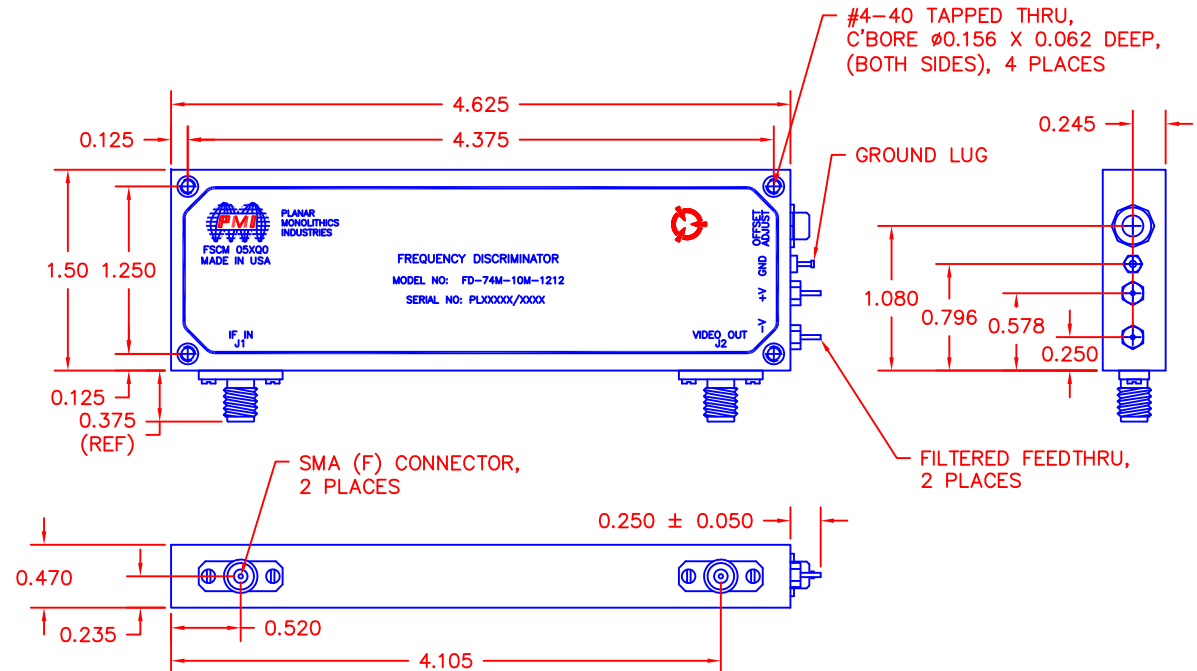
- CENTER FREQUENCY: 74 MHz
- PEAK TO PEAK BANDWIDTH: 30 MHz MIN.
- LINEAR BANDWIDTH: 10 MHz MIN.
- SENSITIVITY: 100 mV / MHz ± 5% INTO 93 OHMS
- LINEARITY: ± 5% MAX.
- INPUT VSWR: 2.0 : 1 MAX.
- INPUT DYNAMIC RANGE: -10 TO 0 dBm MIN.
- RISE TIME: 50 nS MAX.
- DC POWER SUPPLY:
 - +V: +12V @ 200 mA MAX.
 - V: -12V @ 100 mA MAX.
- SIZE: 4.625" x 1.500" x 0.470"
- FINISH: BLUE EPOXY POLIMIDE COATING
IAW MIL-C-22750, TYPE I OVER
EPOXY POLIMIDE PRIMER IAW
MIL-P-23377,
TYPE I, CLASS 1 OR 3.

ENVIRONMENTAL RATINGS

- **TEMPERATURE:** -55°C TO +85°C (OPERATING)
..... -65°C TO +100°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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	6/19/14	
	A1	ECN #15-0125	10/21/15	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
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TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>VR</i>		6/19/14	PRODUCT FEATURE FD-74M-10M-1212			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27023362	REV. A1
ISSUED			SCALE N:S	SHEET 1 OF 2		

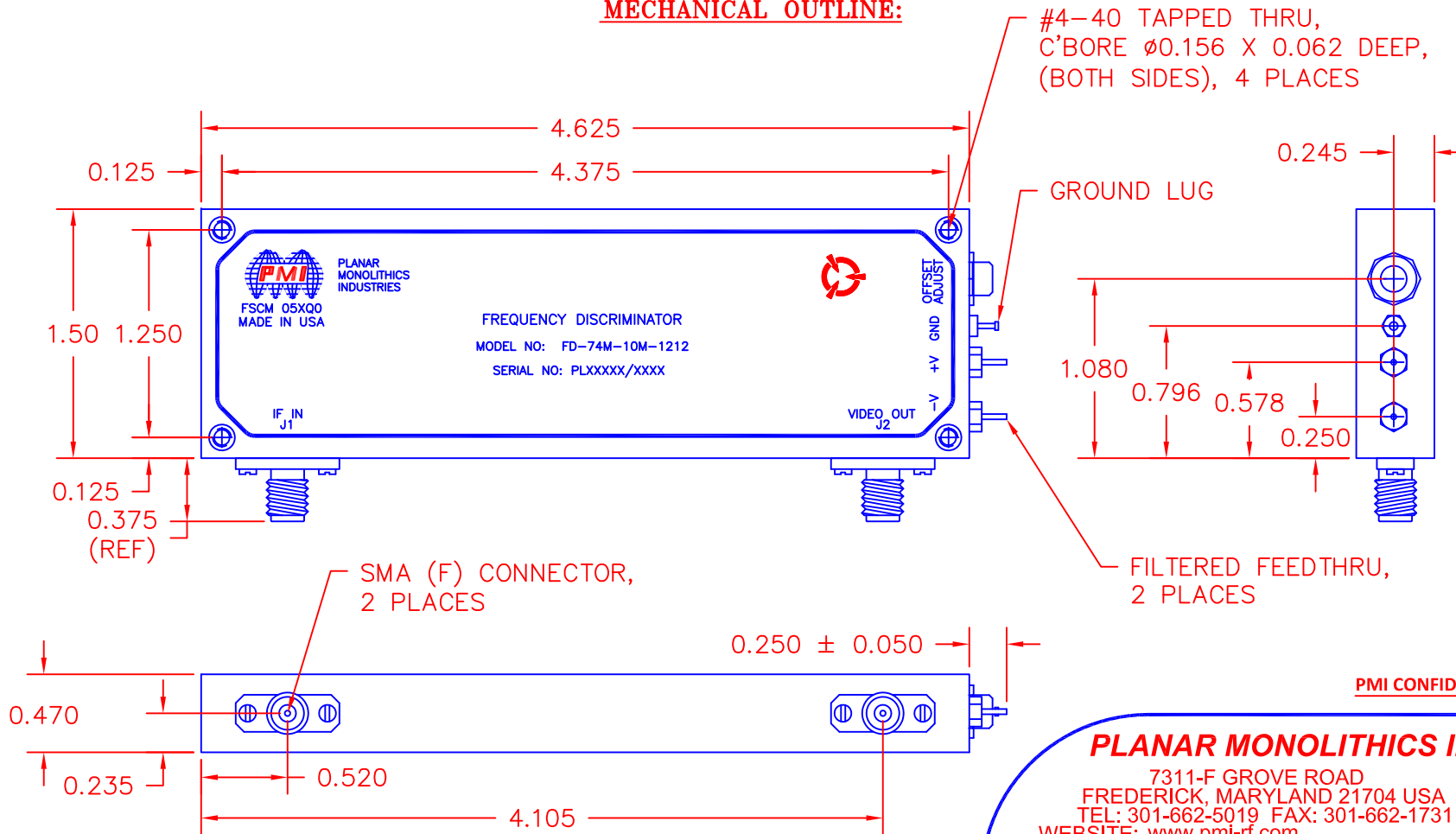
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010
WEIGHT: 2.75 oz.

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MECHANICAL OUTLINE:



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ISSUED			A	05XQ0	27023362	A1
SCALE N:S			SHEET		2 OF 2	