

DESCRIPTION

MODEL NUMBER FD-70M-50M-1212 IS A FREQUENCY DISCRIMINATOR THAT OPERATES AT A CENTER FREQUENCY OF 70 MHz. IT HAS A PEAK TO PEAK BANDWIDTH OF 90 MHz AND A LINEAR BANDWIDTH OF 50 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

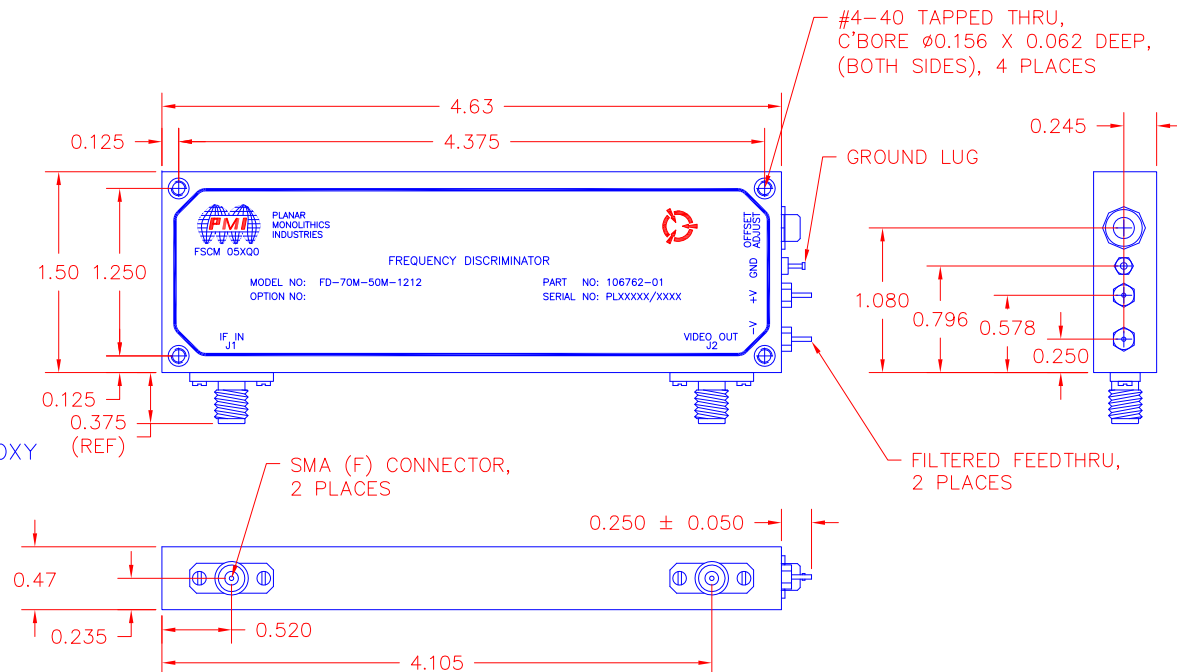
- CENTER FREQUENCY: 70 MHz
- PEAK TO PEAK BANDWIDTH: 90 MHz MIN.
- LINEAR BANDWIDTH: 50 MHz MIN.
- SENSITIVITY: 100 mV / MHz $\pm$ 5% INTO 93 OHMS
- LINEARITY: $\pm$ 5% MAX.
- INPUT VSWR: 2.0 : 1 MAX.
- INPUT DYNAMIC RANGE: -10 TO 0 dBm MIN.
- RISE TIME: 50 nS MAX.
- DC POWER SUPPLY:
 - +V: +12V @ 200 mA MAX.
 - V: -12V @ 100 mA MAX.
- SIZE: 4.625" x 1.500" 0.470"
- FINISH: GRAY 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
	A1	ORIGINAL RELEASE	8/12/09	
	A2	ECN # 13-0098	07/30/13	
	A3	ECN # 14-0086	6/19/14	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		8/12/09		PRODUCT FEATURE	
CHECKED				FD-70M-50M-1212	
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27010968	
SCALE		N:S		SHEET	
				1 OF 2	

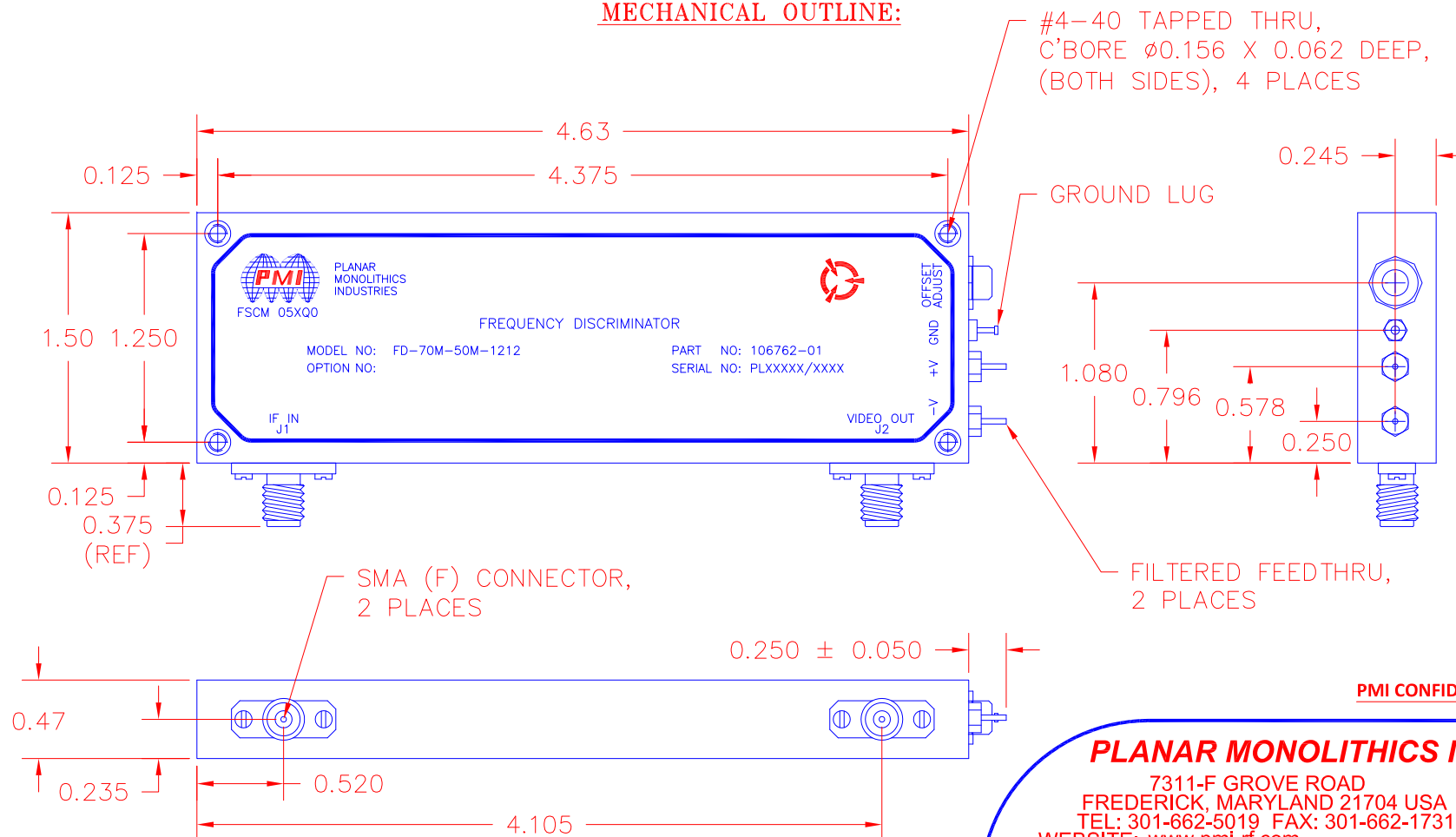
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX $\pm$ 0.020
X.XXX $\pm$ 0.010
WEIGHT: 2.75 oz.

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MECHANICAL OUTLINE:



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ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27010968	A3
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