

DESCRIPTION

MODEL NUMBER FD-70M-50M-1212-500HMS 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 50 OHM LOAD IS 100 mV / MHz. THIS UNIT OFFERS A MAXIMUM RISE TIME OF 80 ns.

SPECIFICATIONS

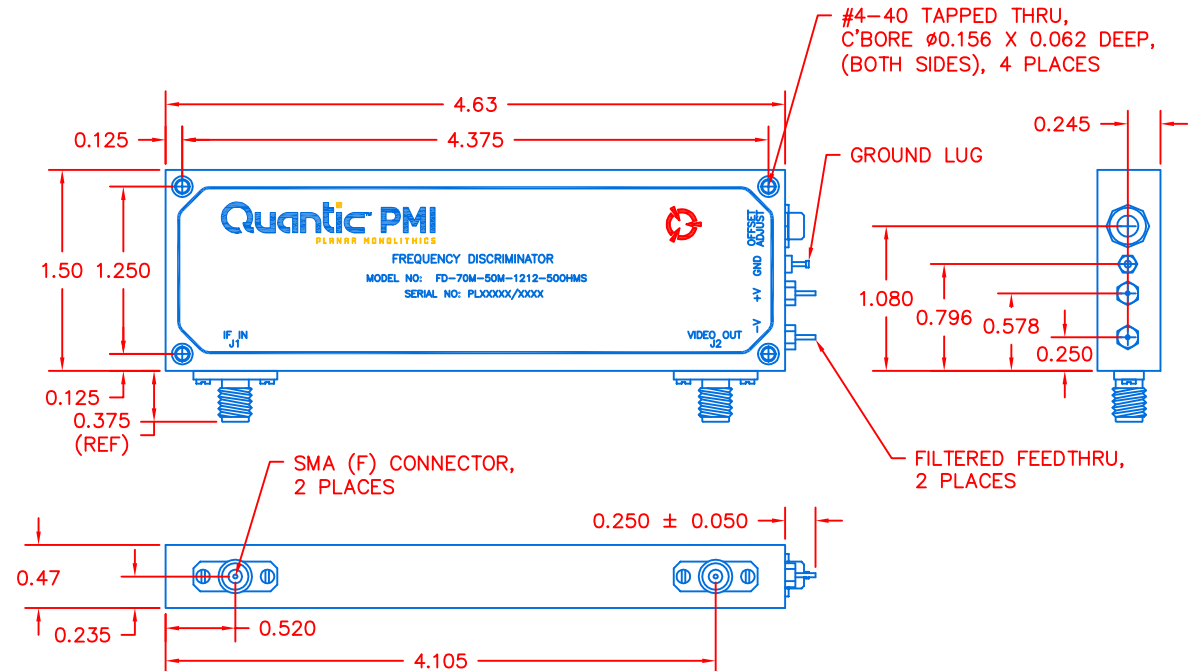
- CENTER FREQUENCY: — 70 MHz
- PEAK TO PEAK BANDWIDTH: — 90 MHz MIN.
- LINEAR BANDWIDTH: — 50 MHz MIN.
- SENSITIVITY @ 25°C: — 100 mV / MHz $\pm$ 5% INTO 50 OHMS
- LINEARITY: — $\pm$ 5% MAX.
- INPUT VSWR: — 2.0 : 1 MAX.
- INPUT DYNAMIC RANGE: — -10 TO 0 dBm MIN.
- RISE TIME: — 75 ns TYP, 80 ns MAX.
- DC POWER SUPPLY:
 - +V: — +12V @ 200 mA MAX.
 - V: — -12V @ 100 mA MAX.
- SIZE: — 4.625" x 1.500" 0.470"
- FINISH: — PAINTED BLUE

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 REVISIONS

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A1	ORIGINAL RELEASE	5/28/24
	A2	ECN # 24-0272	9/23/24



PMI CONFIDENTIAL AND PROPRIETARY

7309-A GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.quanticipmi.com
EMAIL: sales@quanticipmi.com
ISO 9001 CERTIFIED

QMantic PMI
PLANAR MONOLITHICS

APPROVALS		DATE		TITLE			
DRAWN		DATE		PRODUCT FEATURE			
CHECKED		DATE		FD-70M-50M-1212-500HMS			
ISSUED		DATE					
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		27048280		A2	
SCALE		N:S		SHEET		1 OF 1	

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