

DESCRIPTION

PMI MODEL NUMBER PS-500M2G-ANALOG-SFF IS A 0.4 TO 2GHz DIGITALLY CONTROLLED ANALOG PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°.

SPECIFICATIONS

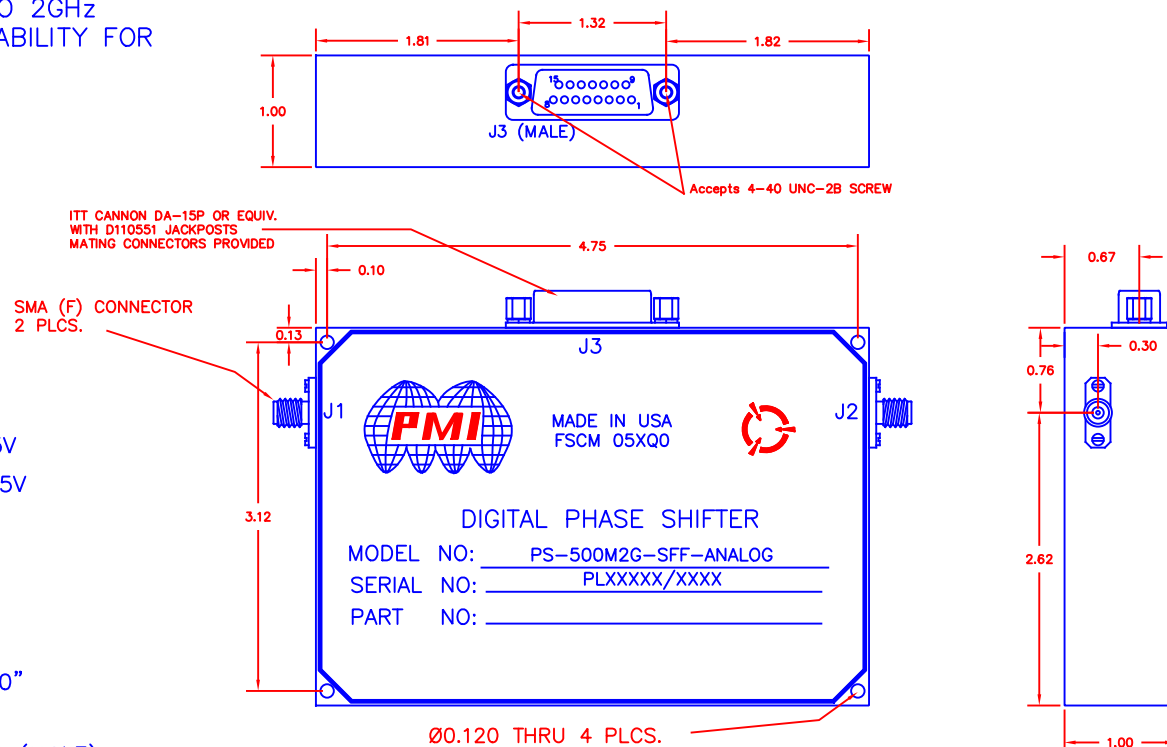
- FREQUENCY RANGE: 0.4 TO 2 GHz
- CONTROL ANALOG I & Q
- INSERTION LOSS 13dB MAX
- PHASE SHIFT 360° TYP
- AMPLITUDE ERROR ±1.0 dB MAX.
- PHASE SHIFT ANALOG (I) +2V TO +5V
ANALOG (Q) +2V TO +5V
- SWITCHING SPEED 500 nsec MAX.
- POWER SUPPLY
+V: +15V
-V: -15V
- SIZE: 4.95" X 3.38" X 1.00"
- CONNECTORS(RF) SMA FEMALE
- CONNECTOR (CONTROL) 15 PIN SUBMINIATURE D (MALE)
- 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 +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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	12/22/23	
	2	FIX TYPOS	10/11/24	



ELECTRICAL CONNECTOR PIN ASSIGNMENTS	
PIN LETTER	FUNCTION
1	ANALOG (I)
2	ANALOG (Q)
3	GROUND
4	GROUND
5	NC
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	GROUND
13	+ 15 VDC
14	- 15 VDC
15	GROUND

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

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		12/22/23		PRODUCT FEATURE	
MODIFIED				PS-500M2G-ANALOG-SFF	
ISSUED				0.4-2.0GHz, 0°-360° PHASE SHIFTER	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	