

DESCRIPTION

PMI MODEL NUMBER PS-85M4G-9B-SFF IS A 0.085 TO 4.0 GHz DIGITALLY CONTROLLED ANALOG PHASE SHIFTER WITH CAPABILITY FOR PHASE SHIFTING FROM 0° TO 360°. THE UNIT CONSISTS OF AN ANALOG PHASE SHIFTER AND A DIGITAL-TO-ANALOG CONVERTER. NINE LOGIC INPUT LINES ALLOW 512 DISCRETE VALUES OF PHASE.

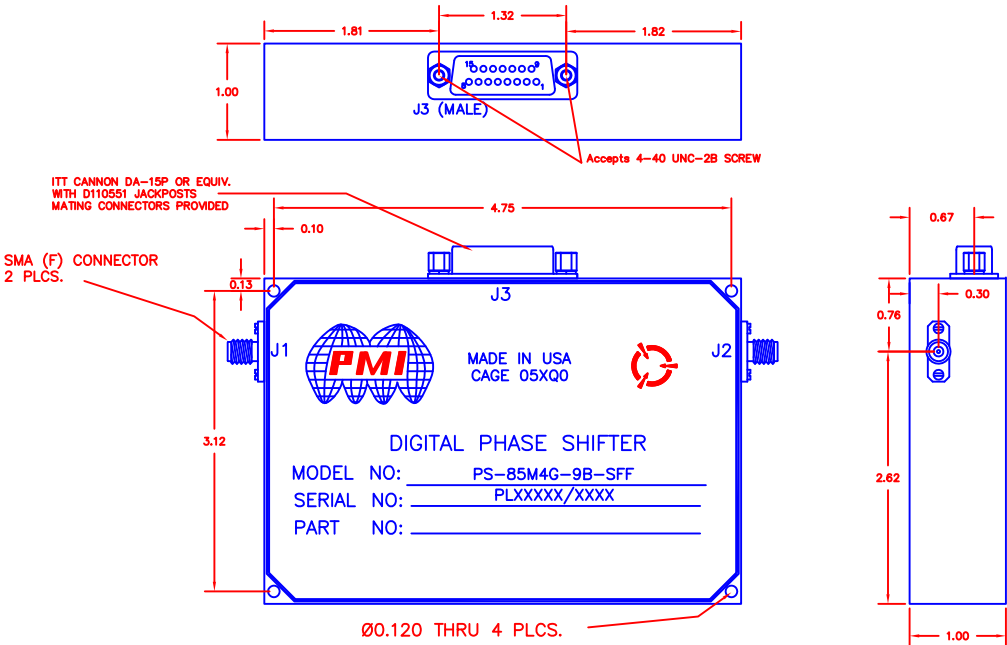
SPECIFICATIONS

- FREQUENCY RANGE: 0.085 TO 4.0 GHz
- CONTROL 9 BIT TTL
- INSERTION LOSS 13dB MAX
- PHASE SHIFT 360° TYP
- AMPLITUDE ERROR ±1.0 dB TYP.
- PHASE SHIFT ERROR ±10° TYP.
- SWITCHING SPEED 500 nsec MAX.
- POWER SUPPLY
 - +V: +15V @ 250 mA
 - V: -15V @ 20 mA
- SIZE: 4.95" X 3.38" X 1.00"
- WEIGHT: TBD
- CONNECTORS (RF) SMA FEMALE
- CONNECTOR (CONTROL) 15 PIN SUBMINIATURE D (MALE)
- TEMPERATURE 0°C TO +50° C
- 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.

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	12/21/15	JD
	2	UPDATE DESCRIPTION	9/17/16	
	A1	ECN # 16-0058	04-15/16	



PMI CONFIDENTIAL AND PROPRIETARY

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

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APPROVALS		DATE	TITLE			REV.	
DRAWN		12/9/15	PRODUCT FEATURE			A1	
MODIFIED			PS-85M4G-9B-SFF				
ISSUED			0.085-4.0GHz, 0°-360° PHASE SHIFTER				
			SIZE	FSCM NO.	OWG NO.		
			A	05XQ0	27029011		
			SCALE	N:S		SHEET	1 OF 1