

DESCRIPTION

PMI MODEL NUMBER PS-85M4G-6B-SFF-OPT100M300M IS A 100 TO 300 MHz 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: 100 TO 300 MHz
- CONTROL 6 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)
- 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

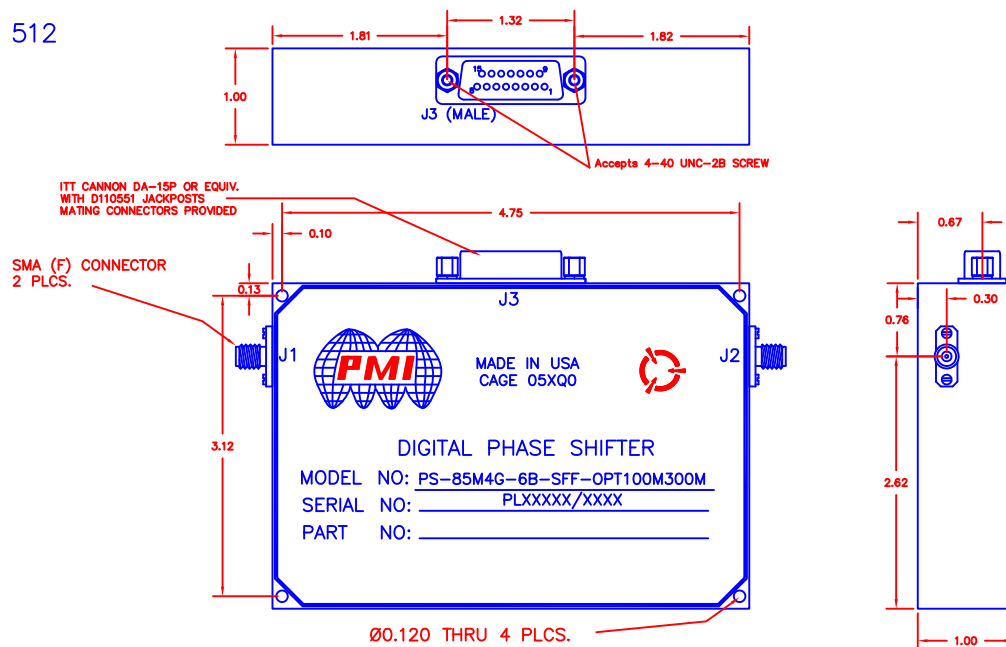
- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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 (MSB)
7	NC
8	NC
9	NC
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
	—	PRELIMINARY	4/4/18	JD



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN <i>EMF</i>		12/9/15		PRODUCT FEATURE	
MODIFIED <i>EW</i>		4/4/18		PS-85M4G-6B-SFF-OPT100M300M	
ISSUED				100-300 MHz, 0°-360° PHASE SHIFTER	
				SIZE FSCM NO.	OWG NO.
				A 05XQ0	PRELIMINARY
				SCALE N:S	SHEET 1 OF 1