

DESCRIPTION

PMI MODEL NUMBER PS-85M4G-8B-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. EIGHT LOGIC INPUT LINES ALLOW 256 DISCRETE VALUES OF PHASE.

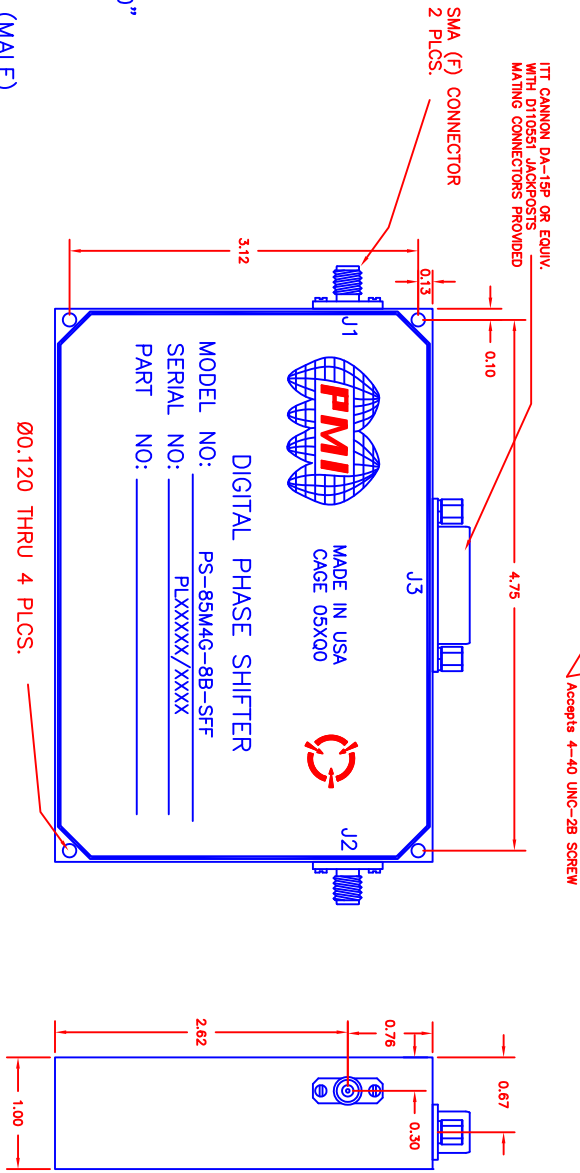
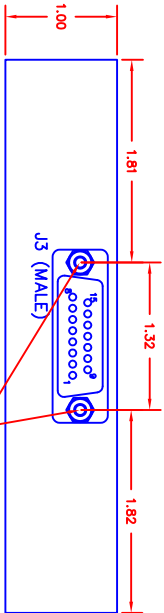
SPECIFICATIONS

- FREQUENCY RANGE: 0.085 TO 4.0 GHZ
- CONTROL: 8 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 TYP
 - V: -15V @ 50 mA TYP
- 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 1AW
 - MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER 1AW 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
	1	ORIGINAL RELEASE	12/21/15
	A1	ECN # 16-0059	04-15-16



ELECTRICAL CONNECTOR PIN ASSIGNMENTS	
PIN LETTER	FUNCTION
1	NC
2	LOGIC INPUTS (LSB)
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

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	
DRAWN	DATE	DATE	DATE
MODIFIED	DATE	DATE	DATE
ISSUED	DATE	DATE	DATE

PRODUCT FEATURE			
MODEL NO.	PS-85M4G-8B-SFF	SIZE	0.085-4.0GHz, 0°-360° PHASE SHIFTER
SERIAL NO.	PLXXXX/XXXX	PKG NO.	27028991
PART NO.		REV.	A1

SCALE: N:S 1 OF 1