

## DESCRIPTION

PMI MODEL PCM-6G18G-CD-SFF IS A POLARIZATION CONTROL MODULE OPERATING BETWEEN 6.0 AND 18.0 GHZ, AND FEATURING DUAL CHANNELS EACH WITH ADJUSTABLE ATTENUATION, PHASE AND OUTPUT SWITCHING. CONTROL IS VIA SERIAL DATA BUS

## SPECIFICATIONS

- FREQUENCY RANGE: 6.0 to 18.0 GHz
- GAIN 0 dB Typ.
- OUTPUT SWITCH (PORT-PORT) ISOLATION: 60 dB Typ.
- VSWR (IN/OUT): 2.0:1 Typ
- ATTENUATION RESOLUTION: 10 Bits, 64 dB
- IMPEDANCE: 50 Ohms
- SWITCHING SPEED (OUTPUT SWITCHES): 100 ns. Typ.
- PHASE SHIFT RESOLUTION 10 Bits, 360 Deg.
- POWER HANDLING: +12 dBm Typ
- RF INPUT/OUTPUT: SMA (F)
- DC SUPPLY: +12 VDC @ TBD mA  
-12 VDC @ TBD mA
- SIZE (L) 6.00" X (W) 3.50" X (H) 0.45"
- 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.

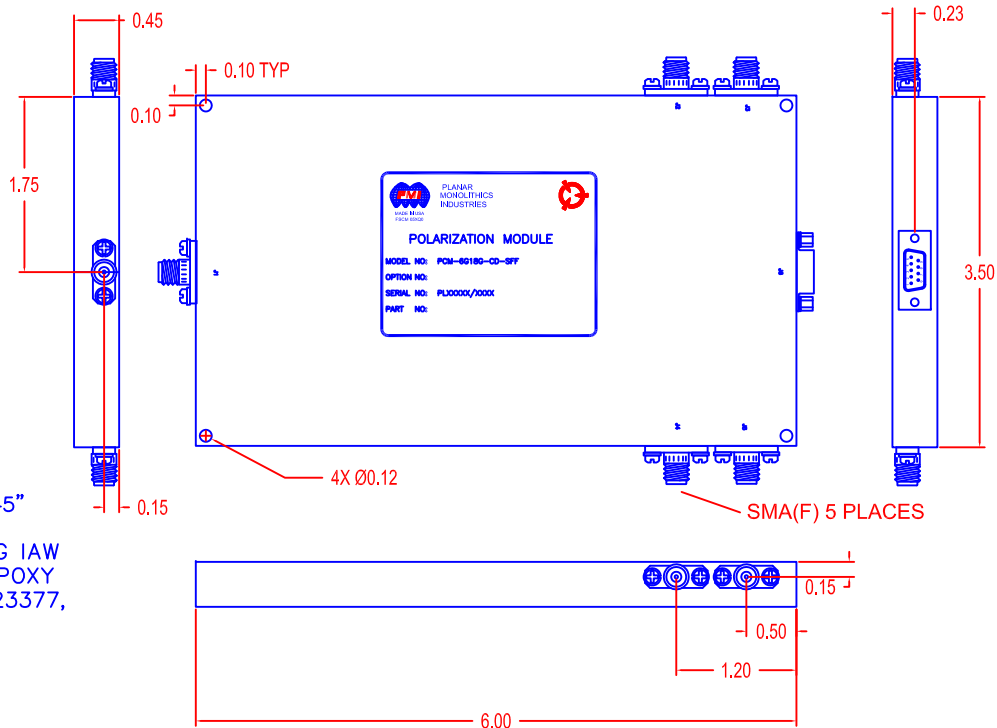
## ENVIRONMENTAL RATINGS

- **TEMPERATURE:** -30°C TO + 70°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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/23/14	



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

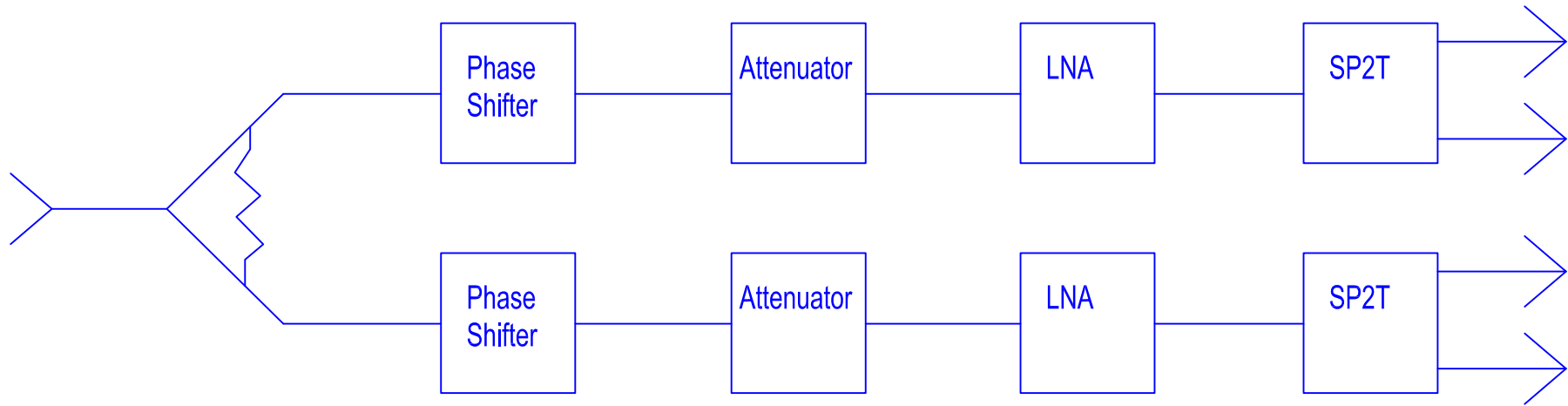
7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>K.M.</i>		7/24/14	PRODUCT FEATURE PCM-6G18G-CD-SFF		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N: S	SHEET 1 OF 2	

REVISIONS				
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**FUNCTIONAL BLOCK DIAGRAM**



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 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-662-5019 FAX: 301-662-1731  
 WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
 E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
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APPROVALS		DATE	TITLE			
DRAWN		<i>K.M.</i>	PRODUCT FEATURE			
CHECKED		7/23/14	PCM-6G18G-CD-SFF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N: S	SHEET	2 OF 2