

## DESCRIPTION

PMI MODEL CS00248-01 Rev. D IS A LO DOUBLER MODULE COVERING THE FREQUENCY RANGE OF 3.6 – 13.3 GHz. THE MODULE TAKES AN INPUT FREQUENCY OF 3.6 – 6.5 GHz AND SUPPLIES AN OUTPUT OF 3.6 – 13.3 GHz.

## SPECIFICATIONS

- FREQUENCY: 3.6 TO 13.3 GHz
  - INPUT: 3.6 TO 6.65 GHz
  - OUTPUT 1 + 2: 3.6 TO 13.3 GHz
- INPUT LEVEL: 0 TO 4 dBm
- OUTPUT LEVEL (NO ATTENUATION): +10 dBm MIN, +16 dBm TYP
- IN/OUT VSWR: 2.0:1 MAX
- HARMONICS: -25 dBc MAX
  - SUB HARMONICS AND MULTIPLES: -65 dBc MAX
  - SUB HARMONICS OF:
    - 3.85 – 3.95 GHz: -75 dBc MAX
    - 4.85 – 4.90 GHz: -75 dBc MAX
- SWITCHING SPEED: 10 usec MAX
- CONTROL LOGIC: TTL, POSITIVE TRUE
- POWER REQUIREMENTS: +7.5VDC @ ±5% 600mA MAX
- ANALOG AMPLITUDE CONTROL: 0V = MIN ATTENUATION  
+5V = MAX ATTENUATION
- OUT1/2 ON-OFF ISOLATION: -35 dBc MIN
- CONNECTOR (INPUT): GILBERT (GPO)
- CONNECTORS (OUTPUT): SMA FEMALE
- SIZE: (L) 3.0" X (W) 1.5" X (H) 0.375"
- FINISH: GOLD PLATED

## ENVIRONMENTAL RATINGS

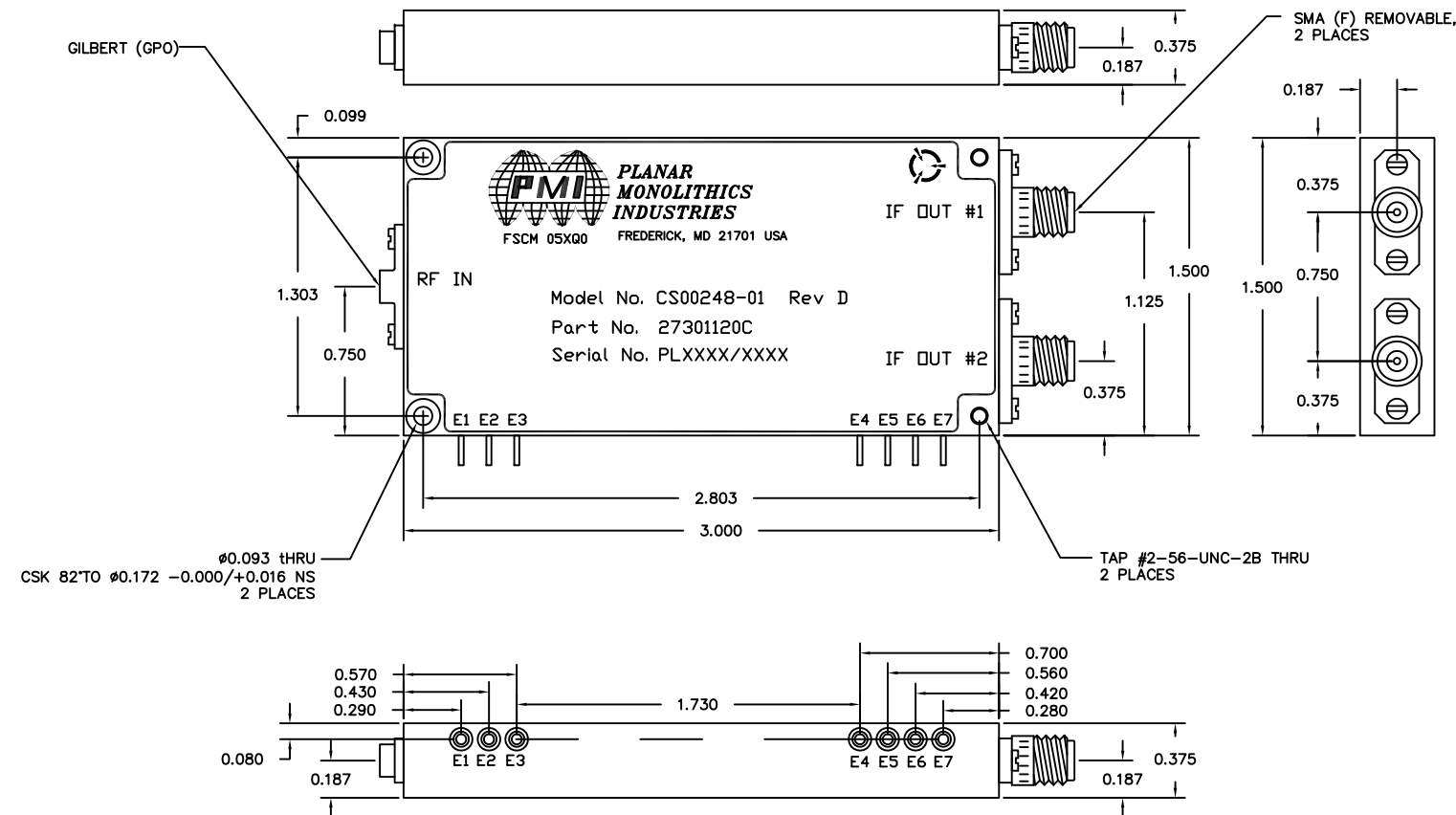
- TEMPERATURE: -10°C TO +65°C (OPERATING)  
-40°C TO +85°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	11/9/11	

## MECHANICAL OUTLINE



CONTROL LOGIC TABLE			
E4	E5	E6	FILTER PATH
0	0	X	3.6 - 6.65 GHz
1	0	X	7.2 - 9.8 GHz
0	1	X	9.8 - 13.3 GHz
X	X	0	OUTPUT 1
X	X	1	OUTPUT 2

PIN VOLTAGE AND LOGIC	
PIN	FUNCTION
E1	POSITIVE VOLTAGE
E2	GROUND
E3	NO CONNECTION
E4	CONTROL A
E5	CONTROL B
E6	OUTPUT SEL
E7	AMPLITUDE CONTROL

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>JFR</i>		11/9/11	PRODUCT FEATURE CS00248-01 Rev. D			
MODIFIED <i>sfk</i>		11/9/11	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27001135	A
			SCALE N: S			SHEET 1 OF 1