

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.

- 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

- **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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

PLANAR MONOLITHICS INDUSTRIES
FSCM 05X00 FREDERICK, MD 21701 USA

Model No. CS00248-01 Rev D
Part No. 27301120C
Serial No. PLXXXX/XXXX

Top View Dimensions:

- Overall Width: 2.803
- Overall Height: 1.500
- RF IN Pin Spacing: 1.303
- IF OUT #1 Pin Spacing: 1.500
- IF OUT #2 Pin Spacing: 1.125
- Bottom Pin Spacing: 2.803
- Bottom Pin Spacing: 3.000

Side View Dimensions:

- Overall Width: 0.080
- Overall Height: 0.187
- RF IN Pin Spacing: 0.570, 0.430, 0.290
- IF OUT #1 Pin Spacing: 0.700, 0.560, 0.420, 0.280
- IF OUT #2 Pin Spacing: 0.375
- Bottom Pin Spacing: 0.187

Labels and Notes:

- GILBERT (GPO)
- RF IN
- IF OUT #1
- IF OUT #2
- E1 E2 E3
- E4 E5 E6 E7
- CSK 82° TO Ø0.172 -0.000/+0.016 NS 2 PLACES
- Ø0.093 THRU
- TAP #2-56-UNC-2B THRU 2 PLACES
- SMA (F) REMOVABLE, 2 PLACES

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

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

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