

DESCRIPTION

PMI MODEL: PMC-24-7D5-SFF IS A MONOPULSE COMPARATOR OPERATING OVER THE 2.0 TO 4.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A TYPICAL INSERTION LOSS OF 0.8 dB IF INPUT SIGNALS AT PORTS A, B, C AND D ARE EQUAL IN AMPLITUDE OR POWER & INPHASE WITH AN OUTPUT AT PORT AZΣ. INSERTION LOSS OF 7.5 dB MAXIMUM IF INPUT SIGNAL AT PORT A, B, C or D AND ALL OTHER PORTS ARE TERMINATED TO 50 OHMS WITH AN OUTPUT AT PORTS ELΔ, AZΣ, AQ or AZΔ, WHILE MAINTAINING A MAXIMUM AMPLITUDE BALANCE OF ±1.0 dB AND A PHASE BALANCE OF ±10°.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 2.0 GHz TO 4.0 GHz
- INSERTION LOSS: ----- 0.8 dB TYPICAL (If input signals at ports A, B, C and D are equal Amplitude or Power & Inphase with an output at Port AZΣ)
- INSERTION LOSS: ----- 7.5 dB MAXIMUM (If input signals at port A, B, C or D and all other ports are terminated to 50 Ohms with an output at ports ELΔ, AZΣ, AQ or AZΔ)
- AMPLITUDE BALANCE: ----- ±1.0 dB MAXIMUM
- PHASE BALANCE: ----- ±10°
- ISOLATION: ----- 18 dB MINIMUM
- VSWR: ----- 1.4:1 MAXIMUM
- POWER HANDLING: ----- AVERAGE: 11 WATT MAXIMUM (PORT A, B, C & D)
PEAK: 0.1 kW MAXIMUM
- IMPEDANCE: ----- 50 Ω
- CONNECTORS: ----- SMA FEMALE
- SIZE: ----- 3.543" x 3.543" x 0.433"
EXCLUDING CONNECTORS
- 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-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

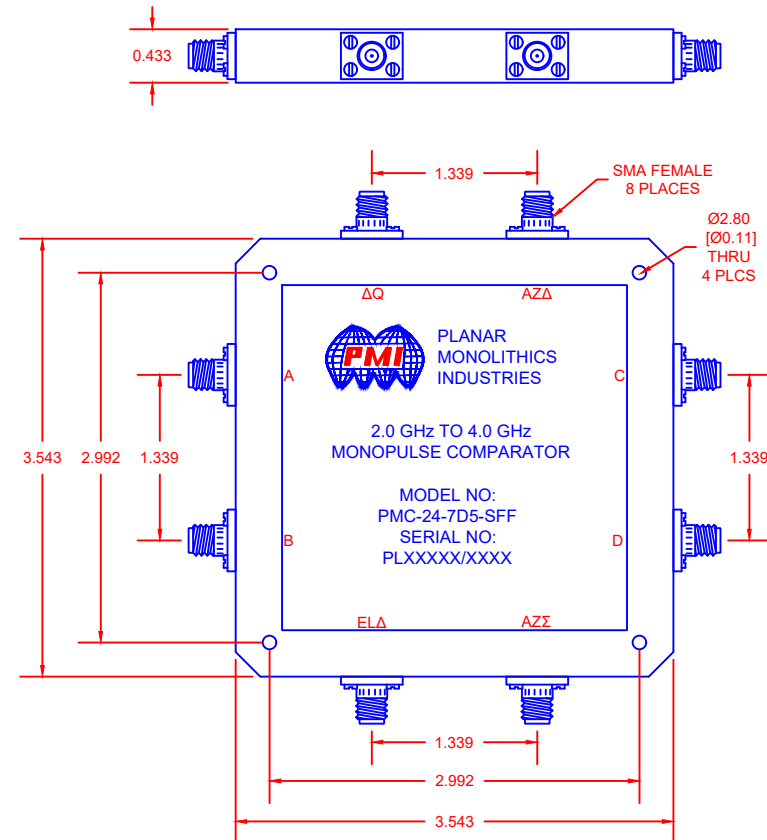
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX ± 0.508 [0.020]
X.XXX ± 0.254 [0.010]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/4/2020	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	EW	9/27/19	PRODUCT FEATURE			
CHECKED			2.0 TO 4.0 GHz Monopulse Comparator			
ISSUED			PMC-24-7D5-SFF			
SIZE	FSCM NO.	DWG NO.				
A	05XQ0	27037540				A1
SCALE	N:S	SHEET	1 OF 1			