

DESCRIPTION

PMI MODEL P1T-218-60-R-512-SFF IS A HIGH SPEED SINGLE POLE SINGLE THROW, REFLECTIVE SWITCH CAPABLE OF SWITCHING WITHIN 15ns. THE FREQUENCY RANGE IS 2.0 TO 18.0 GHz. THIS SWITCH HAS > 60 dB ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 18.0 GHz
- ISOLATION: 2-4GHz 50 dB MIN
4-8GHz 65 dB MIN
8-18GHz 60 dB MIN
- INSERTION LOSS: 2-4GHz 1.3 dB MAX
4-8GHz 1.5 dB MAX
8-12GHz 2.0 dB MAX
12-18GHz 2.4 dB MAX
- VSWR IN / OUT: 2-12GHz 1.9:1 MAX
12-18GHz 2.0:1 MAX
- OPERATING INPUT POWER: 500mW CW MAX
- SURVIVAL POWER 1.5W CW, 20W PEAK
(1usec max. pulse width, 7.5% duty cycle)
- RF SWITCHING SPEED: 15 ns MAX
T on = 50% TTL to 90% RF Voltage
T off = 50% TTL to 10% RF Voltage
- SWITCH RATE 5MHz MAX PRF @ 50% DUTY CYCLE
- DC VOLTAGE: +5 VDC @ 50 mA
-12 VDC @ 50 mA
- DRIVER REVERSE VOLTAGE PROTECTED
- CONTROL SIGNAL: Logic 0 (0 to 0.8V, 1.6mA max sink @ 0.4V) = Insertion Loss
Logic 1 (2 to 5.5V, 40uA max. source @ 2.4V) = Isolation
- CONNECTORS IN/OUT: SMA (F)
- FINISH: PAINTED GRAY

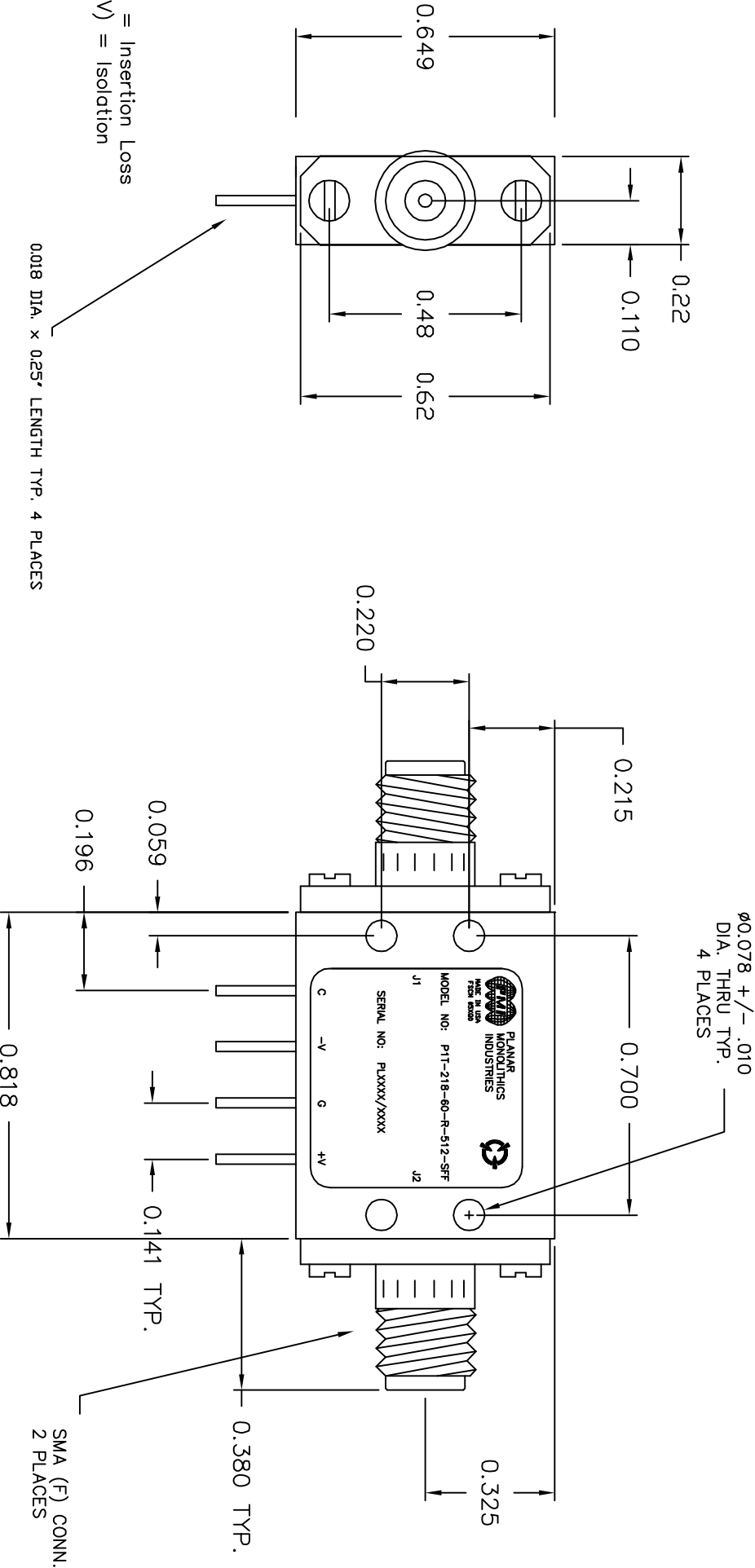
ENVIRONMENTAL RATINGS

- TEMPERATURE: -54°C TO +95°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
	A	ORIGINAL RELEASE	2/24/10

MECHANICAL OUTLINE



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± ± ±		PART NO.		APPROVALS		DATE	TITLE	
MATERIAL:		DRAWN:		CHECKED:		2/24/10	PLANAR MONOLITHICS INDUSTRIES 5715 INDUSTRY LANE UNIT 11 FREDERICK, MARYLAND	
FINISH:		ISSUED:		SIZE:		B	DUTLINE DRAWING P1T-218-60-R-512-SFF	
NEXT ASSY:		USED ON:		SCALE:		N/S	SHEET 1 OF 1	
APPLICATION:		DO NOT SCALE DRAWING		REV:		A		