

## DESCRIPTION

PMI MODEL: P3T-0R5G18G-55-T-SFF-PN-OPT218 IS AN ABSORPTIVE SINGLE POLE, THREE THROW SWITCH THAT OPERATES OVER THE 2.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 55 dB ISOLATION AND A MAXIMUM INSERTION LOSS OF 3.8 dB. THE COMPACT 1.20" x 1.20" x 0.50" HOUSING IS OUTFITTED WITH FIELD REPLACEABLE SMA FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	02/05/18	

## SPECIFICATIONS @ +25°C

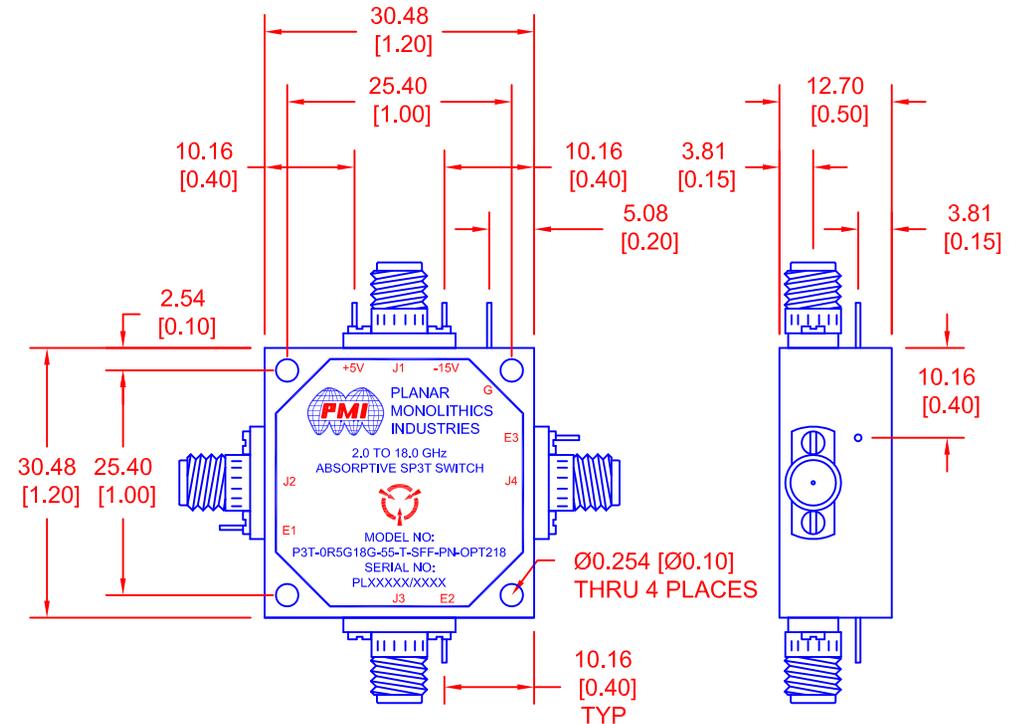
- FREQUENCY RANGE: ----- 2.0 TO 18.0 GHz
- INSERTION LOSS: ----- 3.8 dB MAXIMUM
- ISOLATION: ----- 55 dB MINIMUM
- VSWR: ----- 2.0:1 MAXIMUM
- OPERATIONAL POWER HANDLING: --- +20 dBm CW MAXIMUM
- CONTROL: ----- TTL LOGIC - SEE LOGIC TABLE
- POWER SUPPLY: ----- +5V @ 120 mA NOMINAL  
-15V @ @ 50 mA NOMINAL
- CONNECTORS: ----- RF: SMA FEMALE (4 PLACES)  
LOGIC/POWER: SOLDER PIN (6 PLACES)
- SIZE: ----- 30.48 mm x 30.48 mm x 12.70 mm  
[1.20" x 1.20" x 0.50"]  
EXCLUDING CONNECTORS
- FINISH: ----- PAINTED BLUE

### LOGIC TABLE

#### 3-BIT TTL

E1	E2	E3	FUNCTION
0	1	1	J1-J2 "LOW LOSS"
1	0	1	J1-J3 "LOW LOSS"
1	1	0	J1-J4 "LOW LOSS"

## MECHANICAL OUTLINE



## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)  
-55 °C TO +125 °C (STORAGE)

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

**PMI CONFIDENTIAL AND PROPRIETARY**

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: [www.pmi-rf.com](http://www.pmi-rf.com), EMAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		02/05/18	PRODUCT FEATURE P3T-0R5G18G-55-T-SFF-PN-OPT218 2.0 to 18.0 GHz Single Pole Three Throw Absorptive Switch			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27034120	A1
			SCALE	N:S	SHEET	1 OF 1