

# DESCRIPTION

THE MODEL P8T-27G29G-50-T-55-292FF IS A HIGH SPEED, SINGLE POLE, EIGHT THROW, ABSORPTIVE SWITCH CAPABLE OF SWITCHING WITHIN 50 ns. THE FREQUENCY RANGE IS 27.0 TO 29.0 GHz AND THIS SWITCH HAS OVER 45 dB OF ISOLATION.

# SPECIFICATIONS

- FREQUENCY RANGE: 27.0 TO 29.0 GHz
- ISOLATION: 45 dB MIN
- INSERTION LOSS: 10 dB TYP
- VSWR IN/OUT: 3.0:1 TYP
- OPERATING INPUT POWER: +20 dBm CW
- SWITCHING SPEED: 50 ns TYP
- DC VOLTAGE AND CURRENT: +5 VDC @ 100 mA  
-5 VDC @ 50 mA
- CONTROL SIGNAL: EIGHT LINE TTL
  - E1 CONTROLS J1-J2
  - E2 CONTROLS J1-J3
  - E3 CONTROLS J1-J4
  - E4 CONTROLS J1-J5
  - E5 CONTROLS J1-J6
  - E6 CONTROLS J1-J7
  - E7 CONTROLS J1-J8
  - E8 CONTROLS J1-J9
  - "0" ISOLATION
  - "1" INSERTION LOSS
- CONNECTORS: 2.92mm (F) REMOVABLE
- FINISH: GRAY EPOXY POLIMIDE COATING  
IAW MIL-C-22750, TYPE I  
OVER EPOXY POLIMIDE PRIMER  
IAW MIL-P-23377, TYPE I,  
CLASS 1 OR 3.
- SIZE: 4.0" X 1.5" X 0.4"

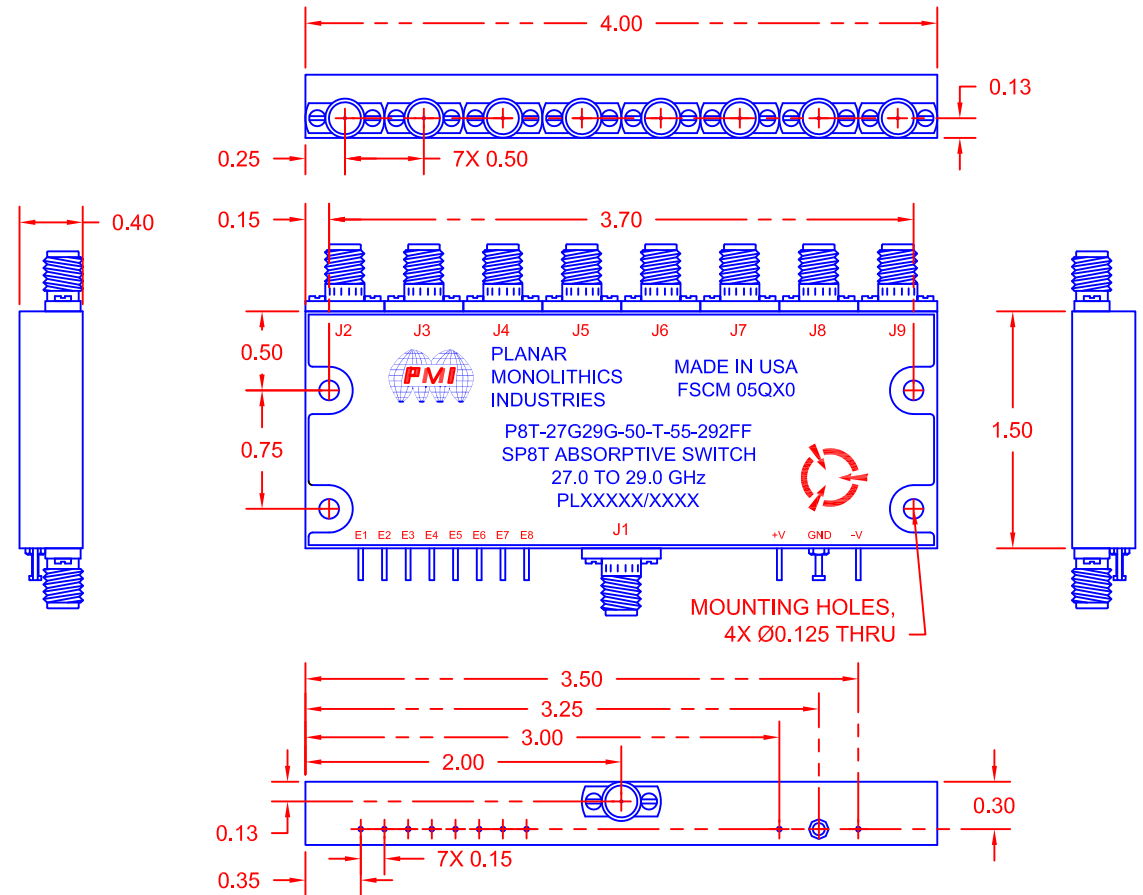
# ENVIRONMENTAL RATINGS

- 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 INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010  
WEIGHT: 2.75 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/11/16	



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>M. Berry</i>		1/11/16	PRODUCT FEATURE P8T-27G29G-50-T-55-292FF			
CHECKED			27.0 TO 29.0 GHz HIGH SPEED SWITCH 8 THROW			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	SHEET		1 OF 1
			N:S			