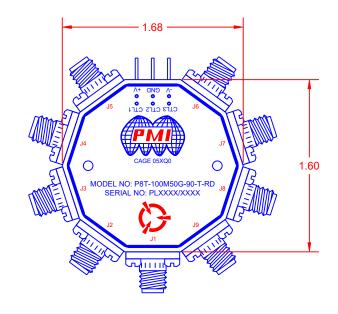
DESCRIPTION

PMI MODEL P8T-100M50G-90-T-RD IS AN ABSORPTIVE, SINGLE POLE EIGHT THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 50 GHz FREQUENCY RANGE. IT FEATURES LOW INSERTION LOSS AND HIGH ISOLATION IN A SLIMLINE PACKAGE. THIS MODEL ALSO INCORPORATES A TTL COMPATIBLE DRIVER FOR EASE OF SYSTEM INTEGRATION.

SPECIFICATIONS

SPECIFICATIONS	
• FREQUENCY:	0.1 TO 50 GHz
INSERTION LOSS:	
	9.0 dB TYP, 10.5 dB MAX (18 TO 40 GHz) 16.0 dB TYP, 17.0 dB MAX (40 TO 50 GHz)
• INPUT & OUTPUT VSWR:	2.2:1 TYP, 2.5:1 MAX (0.1 TO 18 GHz)
	2.5:1 TYP, 3.2:1 MAX (18 TO 40 GHz) 3.5:1 TYP, 3.7:1 MAX (40 TO 50 GHz)
• ISOLATION:	90 dB TYP, 70 dB MIN (0.1 TO 1 GHz)
	90 dB TYP, 60 dB MIN (1 TO 40 GHz)
	80 dB TYP, 50 dB MIN (40 TO 50 GHz)
• INPUT POWER:	20 dBm CW MAX
SWITCHING SPEED:	50 ns MAX
CONTROL SIGNAL:	SEE TTL LOGIC TABLE
• DC VOLTAGE:	+5 V @ 400 mA MAX, -5 V @ 300 mA MAX
RF CONNECTORS:	2.4 mm FEMALE
• SIZE:	1.60" X 1.68" X 0.40"
• FINISH:	GOLD PLATED

REVISIONS								
ZONE	REV.	DESCRIPTION	DATE	APPROVED				
	A1	ORIGINAL RELEASE	9/24/2020					
	A2	ECN # 22-0108	8/25/2022					





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 TEMPE	RATURE

ALL DIMENSIONS ARE IN INCHES **TOLERANCES:** X.XX ±0.020 X.XXX ±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, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



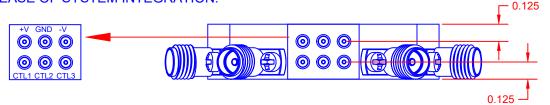
		TITLE							
APPROVALS	DATE	PRODUCT FEATURE							
DRAWN			P8T-100M50G-90-T-RD						
\mathcal{MEB}	12/23/15								
CHECKED		SIZE	FSCM NO.		DWG NO.				REV.
		Α	05XQ0			27034420			A2
ISSUED		SCALE	N:S				SHEET	1 OF 2	

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

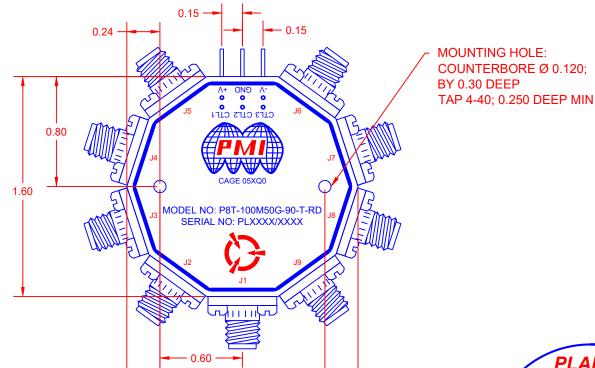
DESCRIPTION

MOUNTING SURFACE

PMI MODEL P8T-100M50G-90-T-RD IS AN ABSORPTIVE, SINGLE POLE EIGHT THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.1 GHz TO 50 GHz FREQUENCY RANGE. IT FEATURES LOW INSERTION LOSS AND HIGH ISOLATION IN A SLIMLINE PACKAGE. THIS MODEL ALSO INCORPORATES A TTL COMPATIBLE DRIVER FOR EASE OF SYSTEM INTEGRATION.



MECHANICAL OUTLINE



1.68

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TTL LOGIC CONTROL TABLE								
CTL 3	CTL 2	CTL 1	FUNCTION					
0	0	0	J1 TO J2					
0	0	1	J1 TO J3					
0	1	0	J1 TO J4					
0	1	1	J1 TO J5					
1	0	0	J1 TO J6					
1	0	1	J1 TO J7					
1	1 1		J1 TO J8					
1	1	1	J1 TO J9					

ALL DIMENSIONS ARE IN INCHES TOLERANCES: X.XX X.XXX

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0.40

0.275



ı										
	APPROVALS	DATE		PRODUCT FEATURE						
	DRAWN		1	P8T-100M50G-90-T-RD						
ı	\mathcal{MEB}	12/23/15								
ı	CHECKED		SIZE	A 05XQ0		DWG NO.				REV.
	100UED		Α				27034420			A2
	ISSUED		SCALE					SHEET	2 OF 2	