High-Speed Switch SP4T Absorptive



Specifications are subject to change without notice



The Mercury Syetms PIN diode SP4T switch family spans the frequency range of 0.5 – 18 GHz. It offers high performance and an integrated high speed driver controlled by TTL or CMOS signals. This switch will maintain high performance as a drop in device for system or subsystem requirements. The Mercury Systems family of high performance switches is available in military or non military versions, hermetic and non-hermetic.

Applications

EW systems Communications systems Antenna/Filter Selectors

Features

Broadband units
Environmentally sealed
-55° C to +95° C operation
Shock/vibration/acceleration capable

SP4T Specifications

Band	Frequency GHz	Reflective			Absorptive			Switching Speed
		Insertion Loss (dB MAX)	VSWR (MAX)	Isolation (dB MIN)	Insertion Loss (dB MAX)	VSWR (MAX)	Isolation (dB MIN)	(nS MAX)
1	0.5 - 2	1.6	1.6	80	1.7	1.6	80	100
2	2 - 6	1.6	1.7	70	1.7	1.7	75	100
3	6 - 18	3.2	2.0	60	3.4	2.0	65	100
4	2 - 18	3.3	2.0	60	3.5	2.0	65	100
5	0.5 - 18	3.4	2.0	60	3.6	2.0	65	100

Power Supply Option

Code ± 5%	Α	В	С	Current (mA MAX)
+V	+5V	+5V	+12 to +15V	100
-V	-5V	-12 to -15V	-12 to -15V	50

Control Logic Option

Control Logio	Switch State			
Control Logic	Normal N	Inverting I		
TTL 0	Ins. Loss	Isolation		
TTL 1	Isolation	Ins. Loss		

Specifications

Switching Speed measured from 50% control to 10/90% RF
Max. RF Power (Operational/Survival)

Storage Temperature

-65° to +150°C

Finish

Gray Epoxy Paint per MIL-C-22750

Weight

2.5 oz. Max

Control

E1 Controls J1-J5

E2 Controls J2-J5

E3 Controls J4-J5

E3 Controls J4-J5

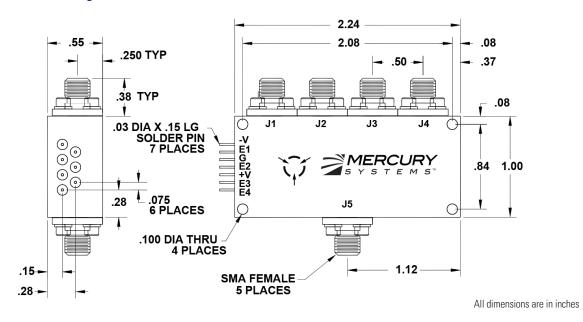
Ordering Information





SP4T Absorptive mrcy.com/rf

Outline Drawing



Need More Help? Need a Variant of This Product?

Contact Mercury's RF & Microwave engineering team at rf.microwave@mrcy.com or visit www.mrcy.com/rf for a detailed listing of RF and Microwave products.

