

Product Specification

CMSW-SPDTR-1G-5K SPDT REFLECTIVE RF SWITCH

CMSW-SPDTR-1G-5K is a single pole double throw hermetically sealed reflective switch. It operates from 1 GHz to 1.1 GHz at 100 Watts average input power. Peak power handling is 5 kW for a 17 μ S / 2% duty cycle pulse.

Electrical Specifications

Frequency Range	1-1.1 GHz
Power	5KW Peak
Average Power	100 W
Insertion Loss	0.8 dB Max
Isolation	40 dB Min
VSWR	1.5:1
Duty Cycle	2%
Pulse Width	17 μ S
PRF	600 Hz
Switching Speed	250 nS Typ. [50% TTL to 10%/90% RF]
Switching Rate	2 KHz
Power Supply	+50V @ 50mA, +5V @ 350mA
Control	TTL
RF Connectors	TNC Female
Power/Control Interface Connector	9 Pin Micro D-Sub Female
Hot Switching*	No
Cold Switching	Yes

* Hot Switching will cause damage, Cold Switching only

Mechanical / Environmental Specifications

Housing Material	Aluminum
Finish	Blue Epoxy Polyamide Coating, No Paint on Mounting Surface
Sealing	Hermetic
Dimensions	4.22 x 2.98 x 0.70 Inches
Temperature (Base Plate)	Operating: -45C to +85C Storage: -54C to +125C

Mechanical / Environmental Specifications

TTL Level	State
Low	J1 to J2
High	J1 to J3

Interface Connector Pin Out

Pin #	Function
1	+50 VDC
2	No Connect
3	No Connect
4	+5 VDC
5	TTL Control Signal
6	Ground
7	Ground
8	Ground
9	Ground

Mechanical Drawing

