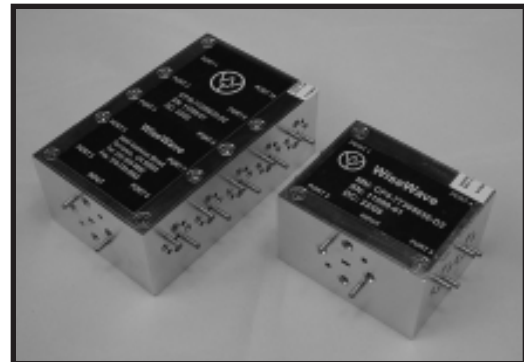


FEATURES

- ❖ High power handling
- ❖ High isolation
- ❖ Low insertion loss
- ❖ Compact size
- ❖ TTL Controlled

APPLICATIONS

- ❖ Antenna beam switching
- ❖ Channel selection



SP4T & SP10T Series

3

DESCRIPTION

Model **CP4T-77303030-D2** and **CP10T-77308030-D2** are PIN diode based SP10T and SP4T switches that operate at the RF frequency range from 75 to 78 GHz. These switches are offered with a built-in TTL driver to simplify the channel switching and to reduce the switching time. The DC and logic control ports are accessed via a single Molex miniature connector. The RF interface of the switches WR-10 waveguide with standard UG387/U-M flange on the input and a miniature flange at the outputs. Operational frequency ranges other than 75 to 78 GHz or number of switching channels other than 4 or 10 are available on request.

SPECIFICATIONS

Description	SP4T (CP4-77305030-D2)	SP10T (CP10-77308030-D2)
RF Frequency	75 to 78 GHz	75 to 78 GHz
Insertion Loss	6.5 dB (Max)	10.0 dB (Max)
Isolation	30 dB (Min)	30 dB (Min)
Switching Speed	150 ns (Max)	150 ns (Max)
DC Bias	+5 Vdc / 50 mA; -5 Vdc / 0 mA (Typ)	+5 Vdc / 160 mA; -5 Vdc / 0 mA (Typ)
Waveguide	Input: WR-12 with UG387/U Flange; Outputs: WR-12 with Miniature Flange	
DC Connector/TTL Control	MOLEX 87833-1020	

SP4T TRUTH TABLE

C1	C0	Port "On"
0	0	Port 1
0	1	Port 2
1	0	Port 3

SP10T TRUTH TABLE

C3	C2	C1	C0	Port "On"	C3	C2	C1	C0	Port "On"
0	0	0	0	Port 1	0	1	0	1	Port 6
0	0	0	1	Port 2	0	1	1	0	Port 7
0	0	1	0	Port 3	0	1	1	1	Port 8
0	0	1	1	Port 4	1	0	0	0	Port 9
0	1	0	0	Port 5	1	0	0	1	Port 10

OUTLINE DRAWINGS

