



Applications:

- Transceiver Multiplexer
- Module Channel Control
- Receiver Blanking

Features:

- Low Insertion Loss
- Various Bandwidth Coverage
- High Isolation
- Waveguide Connectors in 8 WG Bands



Descriptions:

3J Microwave, Inc. offers a complete line of waveguide SPST, SPDT and SPMT pin switches in 8 waveguide bands from K to W. The series switches feature low insertion loss and high isolation in various waveguide bandwidths. They are designed with TTL control. An optional direct DC voltage control is also available. The waveguide PIN

diode switches are excellent choices for the duplexers or multiplexers in the applications of transceivers and modules. They can be also used for receiver blanking and module channel control etc. The waveguide PIN diode switches are sorted in category of **PINx** series waveguide PIN diode switches.

PINx SPST, SPDT & SPMT PIN Diode Waveguide Switch Specifications:

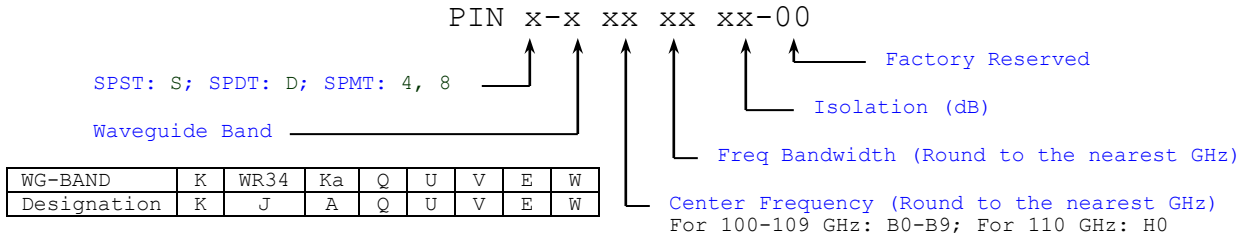
Model Number***	PINx-xxxxxxx-00								
WG Band	WR-42	WR-34	WR-28	WR-22	WR-19	WR15	WR-12	WR-10	
Center Frequency Range (GHz)	18 to 26.5	22 to 33	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110	
Band Width (GHz)	2.0 to Full Waveguide Band								
I. L. (dB)	SPST	0.7	0.8	1.0	1.2	1.3	1.6	1.8	2.0
	SPDT	1.0	1.2	1.5	1.7	1.8	2.2	2.5	3.0
	SPMT	2.0	2.2	2.5	3.0	3.0	3.5	4.0	5.0
Amplitude Balance (dB)	SPDT	± 0.3							
	SPMT	± 0.5							
Isolation** (dB)	-15, -23 and -30.0								
Return Loss (dB)	- 10.0								
Switching Speed (ns)	Low speed: 350 ns High speed: 10 ns								
Control	TTL	TTL Low for ON State (insertion Loss); TTL High for OFF State (Isolation)							
	Voltage	-5V for ON State (Insertion Loss); +5V for OFF state (Isolation)							
WG Flange	UG595/U	UG595/UM	UG599/U	UG383/U	UG383/UM	UG385/U	UG387/U	UD387/UM	
Outline	Please consult the factory for SPMT outlines								

* Center frequency can be chosen in the specified waveguide bands
 ** Higher isolation is available. Contact the factory for the details
 *** Please see "how to order" for the model number details



Section 6-1: Waveguide SPST, SPDT & SPMT PIN Switches
www.3jmicrowave.com Frequency Coverage: 18 to 110 GHz

How to Order:



Model No. Example:

Model Number of a W-Band SPST PIN Switch at Center Frequency of 100 GHz with 10 GHz Bandwidth and 30dB Isolation:

PINS-WB01030-00

Outlines:

Please see Section 6-3, Page 6-7 for the outline details