

Applications:

- Transceiver Multiplexer
- Module Channel Control
- Receiver Blanking

Features:

- Low Insertion Loss
- Various Bandwidth Coverage
- High Isolation
- Frequency Coverage up to 67 GHz



Descriptions:

3J Microwave, Inc. offers a complete line of coaxial SPST, SPDT and SPMT pin switches in the frequency range of 2 to 67 GHz. The series coaxial switches feature low insertion loss and high isolations in various frequency bandwidths. They are designed with TTL control. An optional of direct DC voltage control is also available. The coaxial PIN diode switches are excellent choices for the

diplexers or multiplexers in the applications of transceivers and modules. They can be also used for receiver blanking and module channel control etc. The coaxial PIN diode switches come up with SMA, 2.92 mm, 2.4 mm and 1.85 mm RF connectors for various frequency bands. The coax PIN diode switches are sorted in category of **PINCx** series coax PIN diode switches.

PINCx Coax SPST, SPDT & SPMT PIN Switch Specifications:

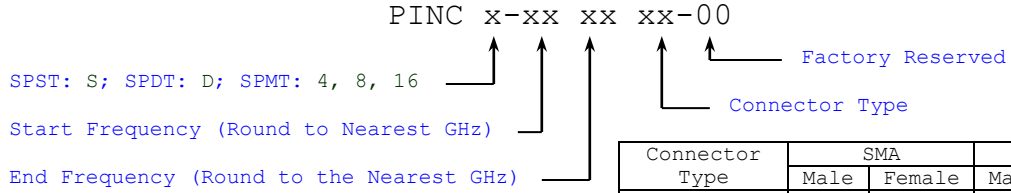
Model Number***		PINCx-xxxxxxx-00					
Frequency Range* (GHz)		2 to 18.0	18 to 26.5	18 to 40	18 to 50	40 to 60	50 to 67
I. L. (dB)	SPST	1.5	1.5	2.0	2.5	3.0	3.5
	SPDT	2.0	2.0	2.5	3.0	3.5	4.0
	SPMT	2.5	3.0	3.5	4.0	4.5	5.5
Amplitude Balance (dB) @ ON State	SPDT	± 0.5					
	SPMT	± 0.8					
Isolation** (dB)		-30.0					
Return Loss (dB)		- 10.0					
Switching Speed (ns)		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)					
RF Connectors		SMA	SMA	2.92 mm	2.4 mm	1.85 mm	1.85 mm
Outline		Please consult the factory for SPMT outline details					

* Start and end frequencies 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 6-2: Coaxial SPST, SPDT & SPMT PIN Switches
www.3jmicrowave.com Frequency Coverage: 2 to 67 GHz

How to Order:



Connector Type	SMA		2.92 mm	
	Male	Female	Male	Female
Designation	SM	SF	KM	KF
Connector Type	2.40 mm		1.85 mm	
	Male	Female	Male	Female
Designation	2M	2F	VM	VF

Model No. Example:

Model Number of a Coaxial SMA SPDT PIN Switch at Frequency Range of 2 to 26.5 GHz with 30dB Isolation:
PINCD-0227SF-00

Outlines:

Please see Section 6-3, Page 6-8 to 6-9 for the outline details