SP12T 18GHz

Loaded type

Normally open / Latching

◆ RF Features

RF Range (GHz)	Insertion loss (dB)	Isolation (dB)	Standing wave
DC -6	0.3	70	1.3
6-12	0.4	60	1.5
12-18	0.5	50	1.6

◆ Product features

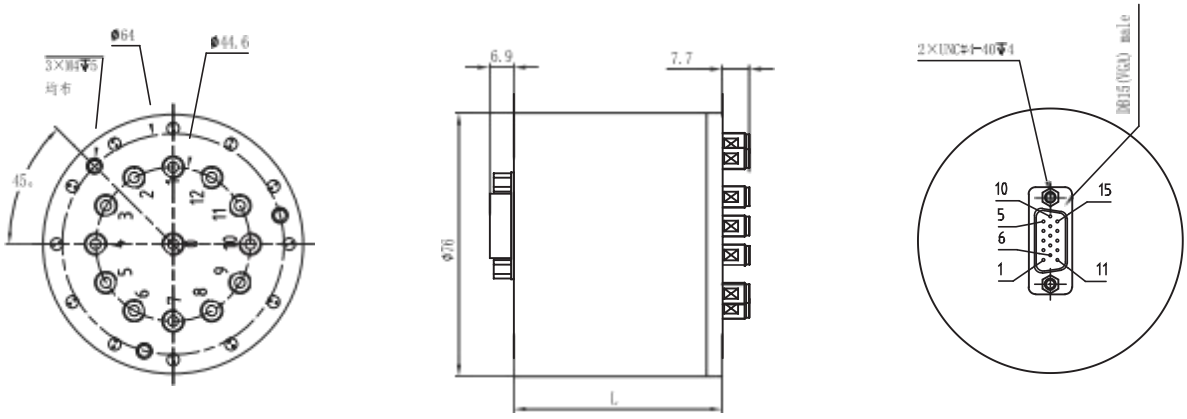
- DC to 18GHz
- Low SWR, low loss, high isolation
- Connector form SMA
- TTL level control is selectable

◆ Operating voltage/current

Operating voltage (V)		12	24	28
Current(mA)	Failsafe	300	200	180
	Latching	320	200	180

* The voltage can be selected according to user's requirements.

◆ Product dimensions



L=50(Standard/TTL)

◆ Technical specifications

Switching sequence: Break first, then close

Switching rate: <15ms

Operating temperature:

-25℃~65℃ (standard)

-55℃~85℃(Temperature expansion)

Switching life: 2 million times

RF connector: SMA

Control interface: DB15 Male

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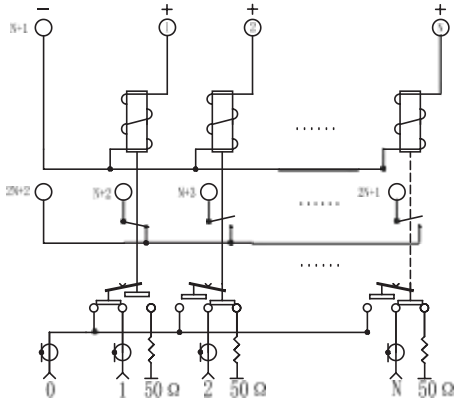
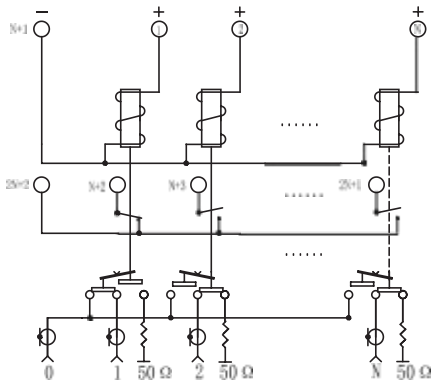
Shock (non-working state): 30G、1/2 Sine、11

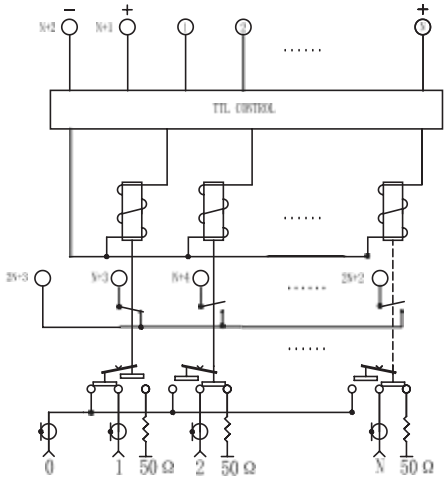
Vibration (operating state): 20-2000Hz, 10GRMS



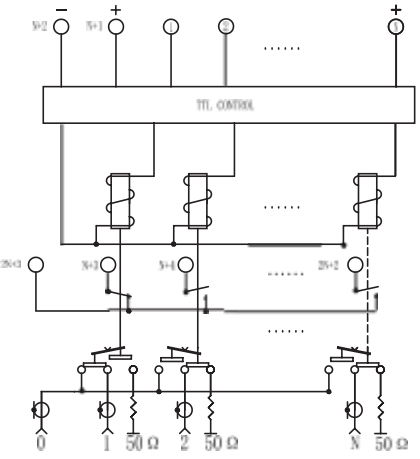
Normally Open



Latching



Normally Open+TTL



Latching+TTL

Switching method SPnT, n=11、12		RF Channel	Pin definition	
			Pin	
			Motivation	Feedback
Normally open	NO TTL	0→1	1:VDC, n+1:GND	2n+2→n+2
		0→2	2:VDC, n+1:GND	2n+2→n+3
		0→n	n:VDC, n+1:GND	2n+2→2n+1
	TTL	0→1	1:TTL, n+1:VDC, n+2:GND	2n+3→n+3
		0→2	2:TTL, n+1:VDC, n+2:GND	2n+3→n+4
		0→n	n:TTL, n+1:VDC, n+2:GND	2n+3→2n+2
Latching	NO TTL	0→1	1:VDC, n+1:VDC, n+2:GND	2n+3→n+3
		0→2	2:VDC, n+1:VDC, n+2:GND	2n+3→n+4
		0→n	n:VDC, n+1:VDC, n+2:GND	2n+3→2n+2
	TTL	0→1	1:TTL, n+1:TTL, n+2:VDC, n+3:GND	2n+4→n+4
		0→2	2:TTL, n+1:TTL, n+2:VDC, n+3:GND	2n+4→n+5
		0→n	n:TTL, n+1:TTL, n+2:VDC, n+3:GND	2n+4→2n+3

Note: The Latching switch should be RESET by applying power to pin n+1 before excitation.