

SP6T 12.4GHz

High Power type
Normally open



◆ RF Features

RF Range (GHz)	Insertion loss (dB)	Isolation (dB)	Standing wave
DC - 5	0.3	70	1.3
5 - 12.4	0.5	60	1.5

◆ Operating voltage/current

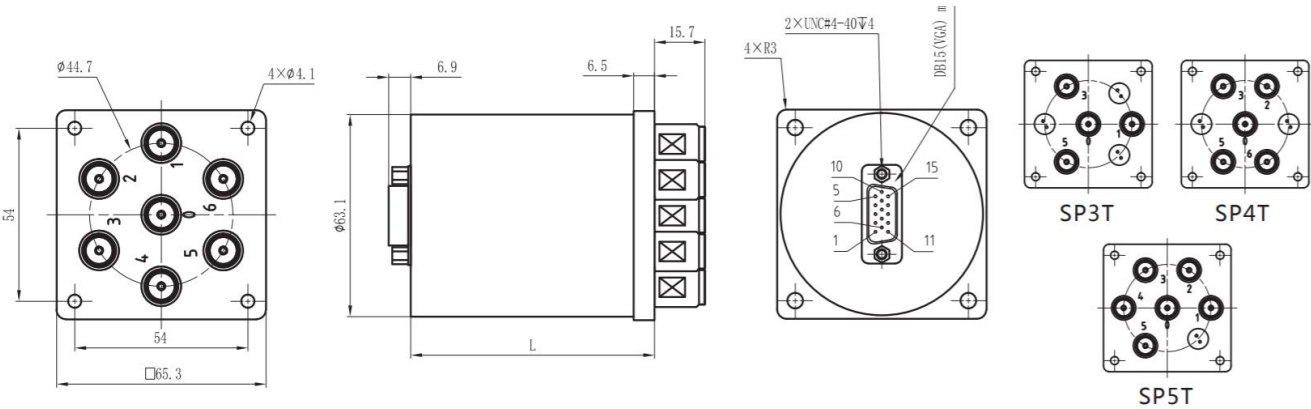
Operating voltage (V)		12	24	28
Current(mA)	Normally Open	300	150	140

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

◆ Product features

- DC to 12.4 GHz
- Low SWR, low loss, high isolation
- Connector form N
- TTL level control is selectable

◆ Product dimensions



L= 74. 5(Standard/TTL)

◆ Technical specifications

Switching sequence: Break first, then close	Switching life: 2 million times	Shock (non-working state): 30G、1/2 Sine、11 ms
Switching rate: <15ms	RF connector: N Female	Vibration (operating state): 20-2000Hz, 10GRMS
Operating temperature:	Control interface: DB15 Male	
-25°C~65°C (standard)		
-55°C~85°C(Temperature expansion)		

SP6T 18GHz

High Power type
Normally open

◆ RF Features

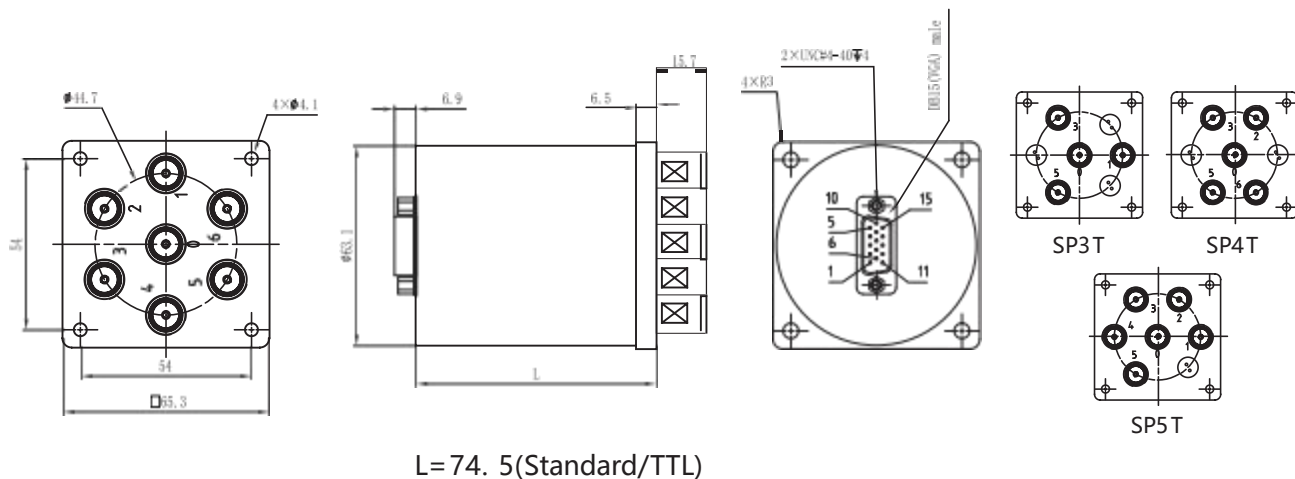
RF Range (GHz)	Insertion loss(dB)	Isolation (dB)	Standing wave
DC - 5	0.3	70	1.3
5 - 12	0.6	60	1.6
12 - 18	0.7	50	1.7

◆ Operating voltage/current

Operating voltage (V)		12	24	28
Current(mA)	Normally Open	300	150	140

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

◆ Product dimensions



◆ Product features

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

◆ Technical specifications

Switching sequence: Break first, then close

Switching rate: <15ms

Operating temperature:

-25°C~65°C (standard)

-55°C~85°C(Temperature expansion)

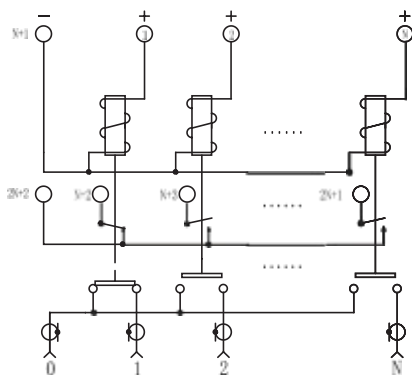
Switching life: 2 million times

RF connector: N Female

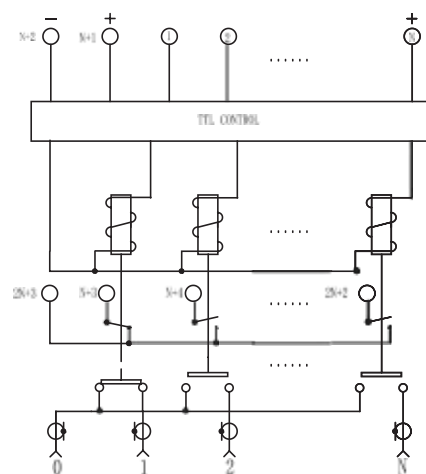
Control interface: DB15 Male

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

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



Normally Open



Normally Open+TTL

Switching method SP3T		RF Channel	Pin definition	
			DB15 MALE	
			Motivation	Feedback
Normally open	NO TTL	0→1	1:VDC, 7:GND	14→8
		0→3	3:VDC, 7:GND	14→10
		0→5	5:VDC, 7:GND	14→12
	TTL	0→1	1:TTL, 7:VDC, 8:GND	15→9
		0→3	3:TTL, 7:VDC, 8:GND	15→11
		0→5	5:TTL, 7:VDC, 8:GND	15→13

Switching method SP4T		RF Channel	Pin definition	
			DB15 MALE	
			Motivation	Feedback
Normally open	NO TTL	0→2	2:VDC, 7:GND	14→9
		0→3	3:VDC, 7:GND	14→10
		0→5	5:VDC, 7:GND	14→12
		0→6	6:VDC, 7:GND	14→13
	TTL	0→2	2:TTL, 7:VDC, 8:GND	15→10
		0→3	3:TTL, 7:VDC, 8:GND	15→11
		0→5	5:TTL, 7:VDC, 8:GND	15→13
		0→6	6:TTL, 7:VDC, 8:GND	15→14

Switching method SP5T		RF Channel	Pin definition	
			DB15 MALE	
			Motivation	Feedback
Normally open	NO TTL	0→1	1:VDC, 7:GND	14→8
		0→2	2:VDC, 7:GND	14→9
		0→3	3:VDC, 7:GND	14→10
		0→4	4:VDC, 7:GND	14→11
		0→5	5:VDC, 7:GND	14→12
	TTL	0→1	1:TTL, 7:VDC, 8:GND	15→9
		0→2	2:TTL, 7:VDC, 8:GND	15→10
		0→3	3:TTL, 7:VDC, 8:GND	15→11
		0→4	4:TTL, 7:VDC, 8:GND	15→12
		0→5	5:TTL, 7:VDC, 8:GND	15→13

Switching method SPnT, n=6		RF Channel	Pin definition	
			DB15 MALE	
			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