

# SP3T-6T N 12.4GHz

## High Power

## Normally open/Failsafe



### ◆ RF Characteristics

Frequency (GHz)	Ins.loss (dB)	Isolation (dB)	VSWR	RF Power CW (W)
DC-5	0.3	70	1.3	350
5-12.4	0.5	60	1.5	250

### ◆ Operating Voltage/Coil Current

Operating Voltage(V)		12	24	28
Coil Current (mA)	Normally open	300	150	140
	Failsafe	270	150	170

\* It can be selected according to user requirements

TTL	TTL Low(V)	TTL High	
	0-0.3	3~5V	1.4mA

Indicators	Withstand Voltage V (max)	Current capacity mA(max)	Resistance Ω (max)
	50	100	15

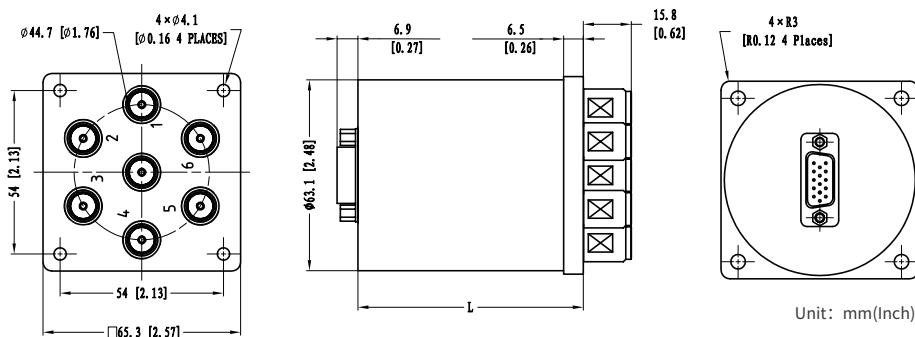
Connect VDC & GND before the function operates

\*

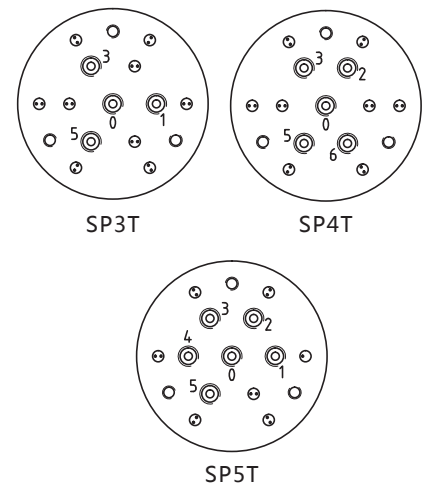
### ◆ Product Functions

- DC to 12.4GHz
- Low loss, Low VSWR, High Isolation
- N Female Connector
- Selectable TTL control

### ◆ Outline Drawing



L = 74.5(Non TTL/TTL/Indicators)



### ◆ Specifications

Switching Sequence: Break before Make

Switching Time: 15ms max

Storage temperature: -55°C~85°C

Operating temperature: -25°C~65°C(Standard)

-45°C~85°C(Extended1)

-55°C~85°C(Extended2)

Mechanical Life Cycles: 2 million cycles

RF Connectors: N Female

Impedance: 50Ω

Mechanical Shock,Non-Operating: 50G、1/2 Sine、11 ms

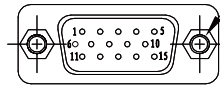
Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: D-SUB 15Pin Male

Weight: 955g

2 × UNC#4-40▽4

[Depth 0.157]



DB15 male

◆ Truth Table

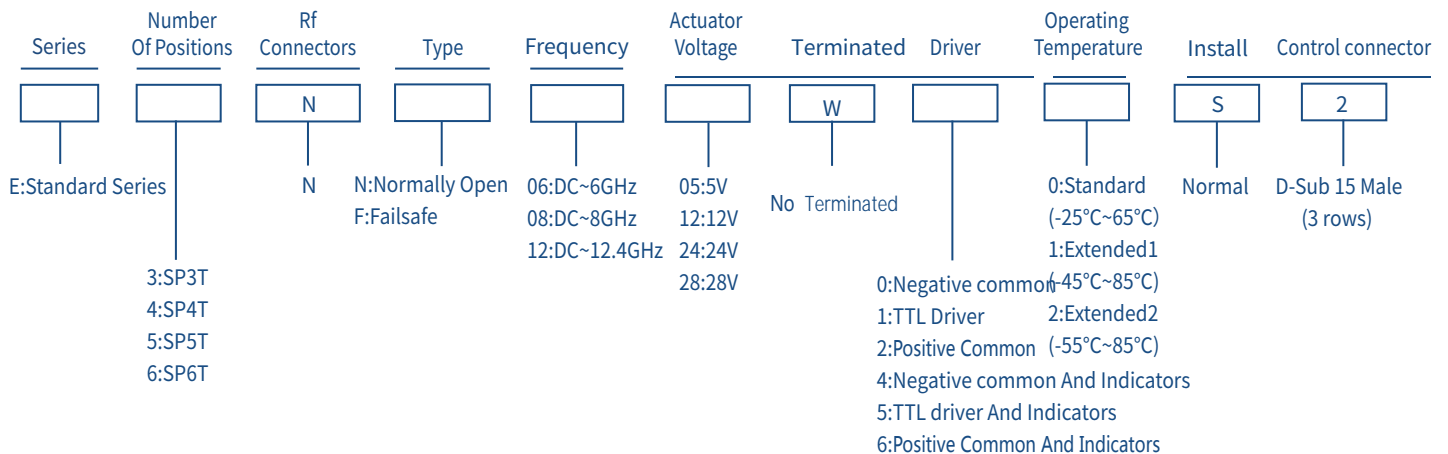
Normally open Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	V1	RF 1-0	-	RF 1-0	RF 1-0
2	V2	-	RF 2-0	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Normally open TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
1	TTL	RF 1-0	-	RF 1-0	RF 1-0
2	TTL	-	RF 2-0	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

Failsafe Non TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
-	No Power	RF 1-0	RF 2-0	RF 1-0	RF 1-0
1	V1	-	-	-	-
2	V2	-	-	RF 2-0	RF 2-0
3	V3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	V4	-	-	RF 4-0	RF 4-0
5	V5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	V6	-	RF 6-0	-	RF 6-0
7	GND	-	-	-	-
8	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
9	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
10	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
11	Ind.4	-	-	RF 4-0	RF 4-0
12	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
13	Ind.6	-	RF 6-0	-	RF 6-0
14	Ind.com	-	-	-	-
15	VDC	-	-	-	-

Failsafe TTL					
Actuator Terminals		RF Connector			
D-SUB 15Pin Male					
Pin No.	Define	SP3T	SP4T	SP5T	SP6T
-	No Power	RF 1-0	RF 2-0	RF 1-0	RF 1-0
1	TTL	-	-	-	-
2	TTL	-	-	RF 2-0	RF 2-0
3	TTL	RF 3-0	RF 3-0	RF 3-0	RF 3-0
4	TTL	-	-	RF 4-0	RF 4-0
5	TTL	RF 5-0	RF 5-0	RF 5-0	RF 5-0
6	TTL	-	RF 6-0	-	RF 6-0
7	VDC	-	-	-	-
8	GND	-	-	-	-
9	Ind.1	RF 1-0	-	RF 1-0	RF 1-0
10	Ind.2	-	RF 2-0	RF 2-0	RF 2-0
11	Ind.3	RF 3-0	RF 3-0	RF 3-0	RF 3-0
12	Ind.4	-	-	RF 4-0	RF 4-0
13	Ind.5	RF 5-0	RF 5-0	RF 5-0	RF 5-0
14	Ind.6	-	RF 6-0	-	RF 6-0
15	Ind.com	-	-	-	-

◆ Product Selection



★ EXP: E3NN0605W00S2: Standard Series, SP3T, N, Normally Open, DC~6GHz, 5V, Non Terminated, Negative common, Standard, Normal, D-Sub 15 Male.