

SPDT 53GHz Terminated Failsafe / Latching

◆ RF Characteristics

| Frequency (GHz) | Ins.loss (dB) | Isolation (dB) | VSWR | RF Power CW (W) |
|-----------------|---------------|----------------|------|-----------------|
| DC-6 | 0.3 | 70 | 1.3 | 40 |
| 6-12 | 0.4 | 60 | 1.4 | 30 |
| 12-18 | 0.5 | 55 | 1.5 | 25 |
| 18-26.5 | 0.6 | 50 | 1.6 | 12 |
| 26.5-32 | 0.8 | 50 | 1.8 | 8 |
| 32-40 | 0.9 | 50 | 1.9 | 5 |
| 40-43 | 1.0 | 50 | 2.0 | 4 |
| 43-50 | 1.1 | 50 | 2.1 | 3 |
| 50-53 | 1.2 | 50 | 2.2 | 2 |

◆ Operating Voltage/Coil Current

| Operating Voltage(V) | 12 | 24 | 28 | |
|----------------------|-------------------|----------|-----|-----|
| | Coil Current (mA) | Failsafe | 350 | 200 |
| | Latching | 400 | 200 | 185 |

* It can be selected according to user requirements

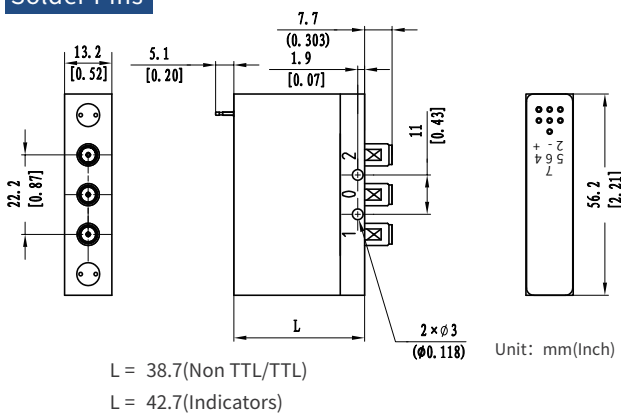
| TTL | TTL Low(V) | TTL High | |
|-----|------------|----------|------|
| | | 0-0.3 | 3~5V |

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

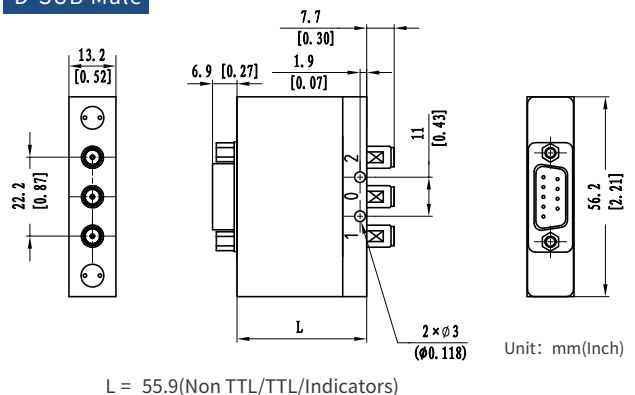
* Connect VDC & GND before the function operates

◆ Outline Drawing

Solder Pins



D-SUB Male



◆ Product Functions

- DC to 53GHz
- Low loss, Low VSWR, High Isolation
- 1.85 Connector
- Selectable TTL driver control

◆ 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: 1.85 Female

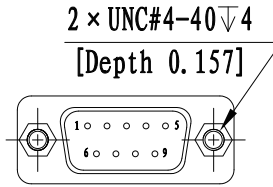
Impedance: 50Ω

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

Vibration Operating: 20-2000 Hz、10G RMS

Actuator Terminals: Solder Pins/D-SUB 9Pin Male

Weight: 75g



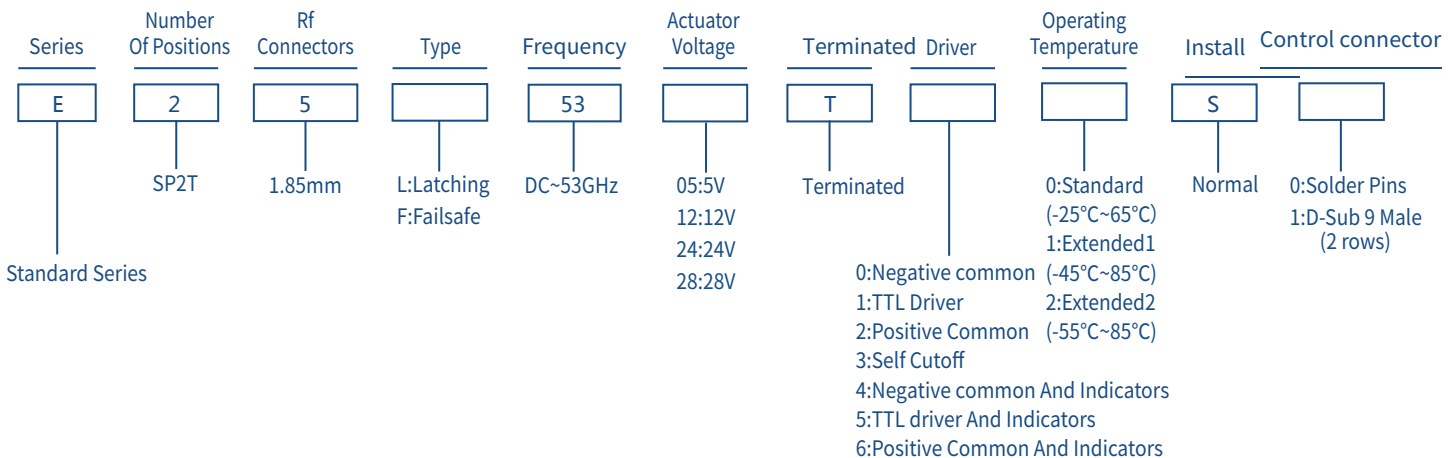
DB9 male

◆ Truth Table

| Failsafe Non TTL | | | | Failsafe TTL | | | |
|-----------------------------|---------|-----------------|--------|-----------------------------|---------|-----------------|--------|
| Actuator Terminals | | RF Connector | | Actuator Terminals | | RF Connector | |
| Solder Pins/D-SUB 9Pin Male | | | | Solder Pins/D-SUB 9Pin Male | | | |
| Pin No. | Define | No Power,RF 1-0 | | Pin No. | Define | No Power,RF 1-0 | |
| 1 | V | RF 2-0 | | 1 | VDC | RF 2-0 | |
| 2 | N/A | - | | 2 | TTL | - | |
| 3 | GND | - | | 3 | GND | - | |
| 4 | Ind.1 | Indicators | RF 1-0 | 4 | Ind.1 | Indicators | RF 1-0 |
| 5 | Ind.2 | | RF 2-0 | 5 | Ind.2 | | RF 2-0 |
| 6 | Ind.com | | - | 6 | Ind.com | | - |
| 7 | VDC | | - | 7~9 | N/A | | - |
| 8~9 | N/A | - | | | | | |

| Latching Non TTL | | | | Latching TTL | | | |
|-----------------------------|---------|--------------|--------|-----------------------------|---------|--------------|--------|
| Actuator Terminals | | RF Connector | | Actuator Terminals | | RF Connector | |
| Solder Pins/D-SUB 9Pin Male | | | | Solder Pins/D-SUB 9Pin Male | | | |
| Pin No. | Define | - | | Pin No. | Define | - | |
| 1 | V1 | RF 1-0 | | 1 | VDC | - | |
| 2 | V2 | RF 2-0 | | 2 | TTL | RF 1-0 | |
| 3 | GND | - | | 3 | GND | - | |
| 4 | Ind.1 | Indicators | RF 1-0 | 4 | TTL | RF 2-0 | |
| 5 | Ind.2 | | RF 2-0 | 5 | Ind.1 | Indicators | RF 1-0 |
| 6 | Ind.com | | - | 6 | Ind.2 | | RF 2-0 |
| 7 | VDC | | - | 7 | Ind.com | | - |
| 8~9 | N/A | - | | 8~9 | N/A | | - |

◆ Product Selection



★ EXP: E25L5305T00S0: Standard Series、SP2T、1.85mm、Latching、DC~53GHz、5V、Terminated、Negative common、Standard、Normal、Solder Pins.