

RF Switch(SP12T)



WV-SP12T-L-S-01

Product Feature

- High Reliability
- RoHS Compliant
- DC ~ 18GHz Band System

Electrical Specifications

| | | | |
|-----------------------------|---|-----------|------------|
| Frequency Range | DC ~ 6GHz | 6 ~ 12GHz | 12 ~ 18GHz |
| Insertion Loss | 0.3dB Max | 0.6dB Max | 0.8dB Max |
| VSWR | 1.3:1 Max | 1.5:1 Max | 1.8:1 Max |
| Isolation | 70dB Min | 60dB Min | 60dB Min |
| Power Handling | 80W Max | 60W Max | 50W Max |
| Power Supply Voltage | Part Number : WV-SP12T-L-S-01-N1 : +12V Part Number : WV-SP12T-L-S-01-N2 : +24V Part Number : WV-SP12T-L-S-01-N3 : +28V | | |
| Power Supply Current | 290mA @ +12V 150mA @ +24V 120mA @ +28V | | |
| In/Out Impedance | 50 ohms Nominal | | |
| Operating Mode | Latching | | |
| Switching Time | 15mS | | |
| Operating Life | 1,000,000 Hours | | |
| Special Options | With Termination/ TTL/ DB15M/ Self cutoff / DB37M / Indicator | | |

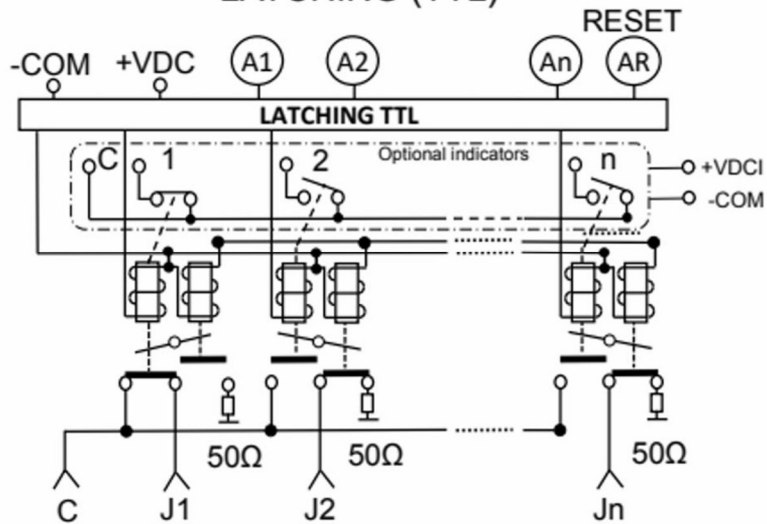
Environmental Specifications

| | |
|------------------------------------|-------------------|
| Operating Temperature Range | -25°C to +65°C |
| RF Contacts | Break before make |

RF Switch(SP12T)

ELECTRICAL SCHEMATIC

LATCHING (TTL)



| | | |
|-----------------------|------|----|
| RF PATH | A(n) | AR |
| J(n)-C | 1 | 0 |
| J(n)-T or Open | 0 | 1 |

Interface(D-SUB 15PIN)

| Pin No. | PINOUT |
|---------|---------------------|
| 1 | A1 (J1-com) |
| 2 | A2 (J2-com) |
| 3 | A3 (J3-com) |
| 4 | A4 (J4-com) |
| 5 | A5 (J5-com) |
| 6 | A6 (J6-com) |
| 7 | A7 (J7-com) |
| 8 | A8 (J8-com) |
| 9 | A9 (J9-com) |
| 10 | A10 (J10-com) |
| 11 | A11 (J11-com) |
| 12 | A12 (J12-com) |
| 13 | COM(-)(GND) |
| 14 | AR (Reset All Open) |
| 15 | I1 (IND:J1-C) |
| 16 | I2 (IND:J2-C) |
| 17 | I3 (IND:J3-C) |

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| | |
|-------|-----------------|
| 18 | I4 (IND:J4-C) |
| 19 | I5 (IND:J5-C) |
| 20 | I6 (IND:J6-C) |
| 21 | I7 (IND:J7-C) |
| 22 | I8 (IND:J8-C) |
| 23 | I9 (IND:J9-C) |
| 24 | I10 (IND:J10-C) |
| 25 | I11 (IND:J11-C) |
| 26 | I12 (IND:J12-C) |
| 27 | COM_I |
| 28-36 | Unused |
| 37 | +VDC/+VDCI |

Optional Indicator Specifications

Max withstand voltage: 60V
Max current capacity: 100mA
Max "ON" resistance: 16Ω

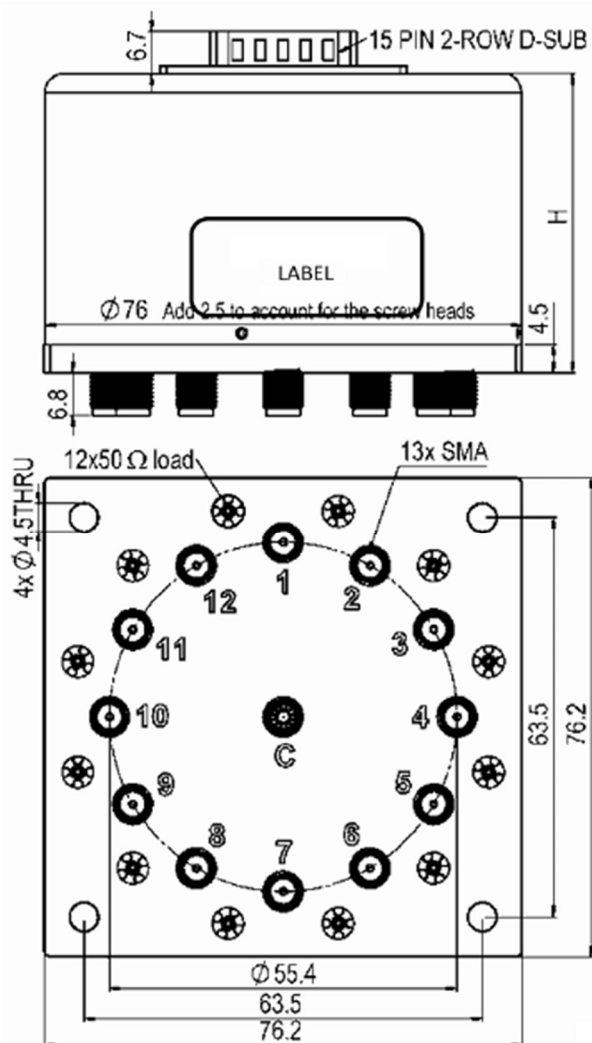
Note: +VDC and -C must be connected to operate.

Mechanical Specifications

| | |
|---------------------------|-------------------------------|
| Dimension | 76.2 x 76.2 x 60.0 (Unit:mm), |
| Mounting Points | See Outline Drawing |
| RF Connector | SMA Female Connector |
| Connector Position | See Outline Drawing |

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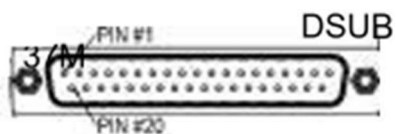
Outline Drawing



H = 60mm(max)

For LATCHING, I(reset) = n x I(set).

A male 2-row 37-pin DSUB37 will be provided on the top.



Dsub arrangements