



Model Number:
SWC-SP4T3P05R162008S

RF Components

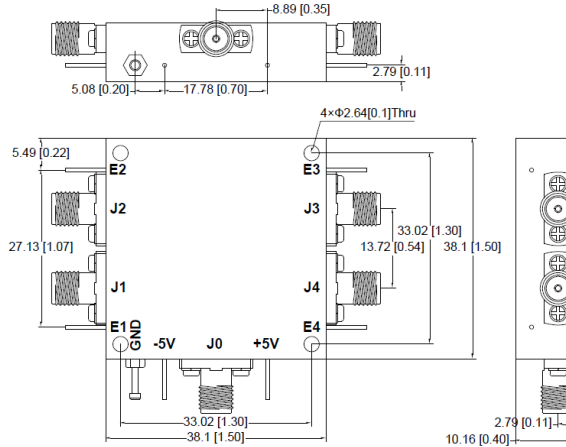
PIN Diode Reflective Switch

2 - 18 GHz

- Single pole four throw PIN diode reflective switch
- TTL control

Available with RF connector options:

- 50 Ω SMA



Switch

| RF Parameters | | |
|------------------------------|------------------------|-----|
| SWC-SP4T3P05R162008S | | |
| Frequency Range | 2 - 18 GHz | |
| RF Connectors | 50 Ω SMA Female | |
| Insertion Loss (dB) | 3.0 Max | |
| Switching Speed (nsec) | Delay ON | 150 |
| | Delay OFF | 150 |
| | Rise Time | 20 |
| | Fall Time | 20 |
| VSWR | 2.0:1 Max | |
| Isolation (dB) | 60 Min | |
| CW RF Power, Operating (dBm) | 23 Max | |

| Environmental | |
|-----------------------|---------------------------------|
| Operating Temperature | -45°C to +85°C |
| Storage Temperature | -55°C to +125°C |
| Vibration | 25g rms (15 degree 2KHz) |
| Humidity | 100% RH at 35°C, 95% RH at 40°C |
| Shock | 20G for 11msc |

| Truth Table | | | | |
|-------------------|----|----|----|-------------------|
| Control Input TTL | | | | Signal Path State |
| E4 | E3 | E2 | E1 | |
| 1 | 1 | 1 | 0 | J0-J1 |
| 1 | 1 | 0 | 1 | J0-J2 |
| 1 | 0 | 1 | 1 | J0-J3 |
| 0 | 1 | 1 | 1 | J0-J4 |

Switching speed is defined as 50% TTL to 90% RF (t-on) and 50% TTL to 10% RF (t-off).

| Absolute Maximum Ratings | |
|--------------------------|-------------------------------|
| Biasing | +5V, -15V |
| TTL Control Voltage | 1: +2.8 - +5V 0: 0 - +0.8V |
| Input RF power | +23 dBm |

Broadcast



Marine Oil & Gas



SNG & VSAT



Satellite Teleport

