

SP5T SWITCH

MODEL 310-021005-001

Available as: 2.74" x 0.90" x 0.40" Field Removable SMA Connectorized Housing

Features

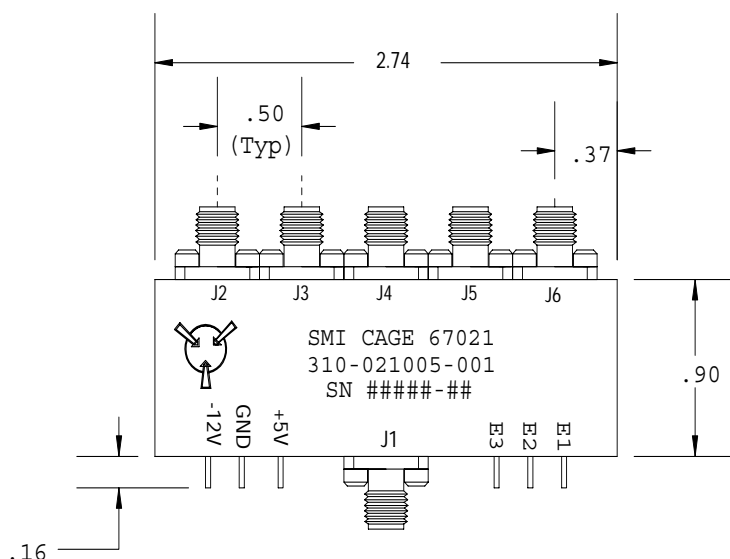
- Channelized SP5T Switch
- Wide Bandwidth: 10 MHz to 22 GHz
- Fast Switching Speed: 100 ns Typical
- Integrated TTL Driver
- Operating Temp.: -55 °C to +85 °C
- Environmental Screening Available

Maximum Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -65°C to +125 °C
 Operating Case Temperature +125 °C
 DC Voltage + 6.0 / -15 Volts
 Continuous RF Input Power +30 dBm

Specifications

| CHARACTERISTIC | TYPICAL Ta = 25 °C | MIN/MAX Ta = -55 °C to +85 °C |
|--|-----------------------|----------------------------------|
| Frequency Range | 10 MHz - 22 GHz | 10 MHz - 22 GHz |
| Insertion Loss (dB) | | |
| 0.010 - 2.0 GHz | 1.3 | 1.65 Max. |
| 2.0 - 18.0 GHz | 3.0 | 3.5 Max. |
| 18.0 - 22.0 GHz | 3.2 | 3.6 Max. |
| Isolation (dB) | | |
| 0.010 - 2.0 GHz | 70 | 65 Min. |
| 2.0 - 18.0 GHz | 45 | 40 Min. |
| 18.0 - 22.0 GHz | 40 | 35 Min. |
| VSWR | 1.8:1 | 2.0:1 Max. |
| RF Leakage (dB) | 75 | - |
| Isolation RF to / from DC (dB) | - | 60 Min. |
| Isolation RF to / from Control (dB) | - | 60 Min. |
| Switching Speed (nSec) (50% TTL to 10/90% RF) | 100 | - |
| DC Bias (Vdc) | +5 / -12 | +5 / -12 |
| Bias (mA) | +150 / -50 | +200 / -100 |
| Input 1 dB Compression (dBm) | - | +27 Min. |
| Intercept Points (dBm) | | |
| 2nd Order IP (Input) | - | +40 Min. |
| 3rd Order IP (Input) | - | +37 Min. |



Truth Table

| TTL Control Input | | | Switch Position |
|-------------------|------|------|-----------------|
| TTL1 | TTL2 | TTL3 | RF1 to RF2 |
| 0 | 0 | 0 | J1 to J2 |
| 0 | 0 | 1 | J1 to J3 |
| 0 | 1 | 0 | J1 to J4 |
| 0 | 1 | 1 | J1 to J5 |
| 1 | 0 | 0 | J1 to J6 |

Typical Performance Data

