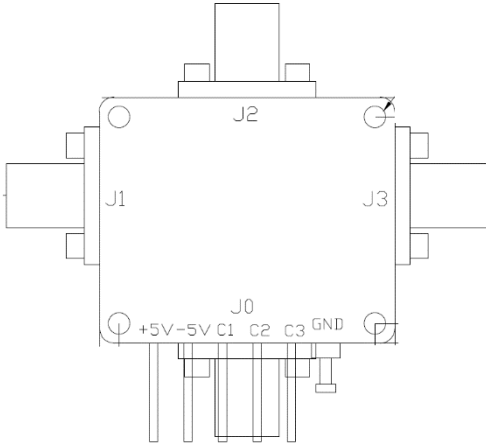


0.05-40GHz PIN Reflective SP3T Switch, High Power



Description:

AT-SP3T-0040XH-R is high power, wide band PIN reflective SP3T switch from 0.05-40GHz. The GaAs Based Pin switch is controlled by TTL with +/-5V power supply. The switch is with good high isolation and good return loss performance.

The modules is with 2.92mm female connector, other connectors can be provided according to request.

More information, visit www.atmicrowave.com

Feature

- ✓ Frequency: 0.05-40GHz
- ✓ Low insertion Loss, -4.5 dB
- ✓ High isolation: -40dBc
- ✓ Very fast speed

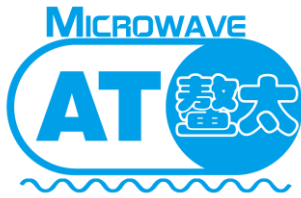
Application

- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System
- ✓ Telecom Communication

Electronical Specifications:

| Parameter | Min | Typical | Max |
|----------------|-----|-------------|-----|
| Frequency | | 0.07-40GHz | |
| Insertion Loss | | -4.5dB | -6 |
| Isolation | -28 | -40 dBc | |
| Return Loss | | -15dB | |
| Switching Time | | 100ns | |
| P1dB @17GHz | | +28dBm | |
| Bias Voltage | | +/-5V, 50mA | |
| Control | | TTL | |
| Spec Temp | | 25C | |





AT-SP3T-0040XH-R

0.05-40GHz PIN Reflective SP3T Switch

Mechanical Information

| Item | Description |
|---------------------------|------------------|
| Input Port | 2.92mm Female |
| Output Port | 2.92mm Female |
| Bias/Control | Feed Through Pin |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight (Without Heatsink) | 50g |
| Size: | See Dimension |

Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|------------------------|
| Bias Voltage | +5V +/-10%, -5V +/-10% |
| RF Input Power | +30dBm |
| Operating Temperature | -40 to +85C |
| Storage Temperature | -65 to +150C |

TTL and Bias Voltage

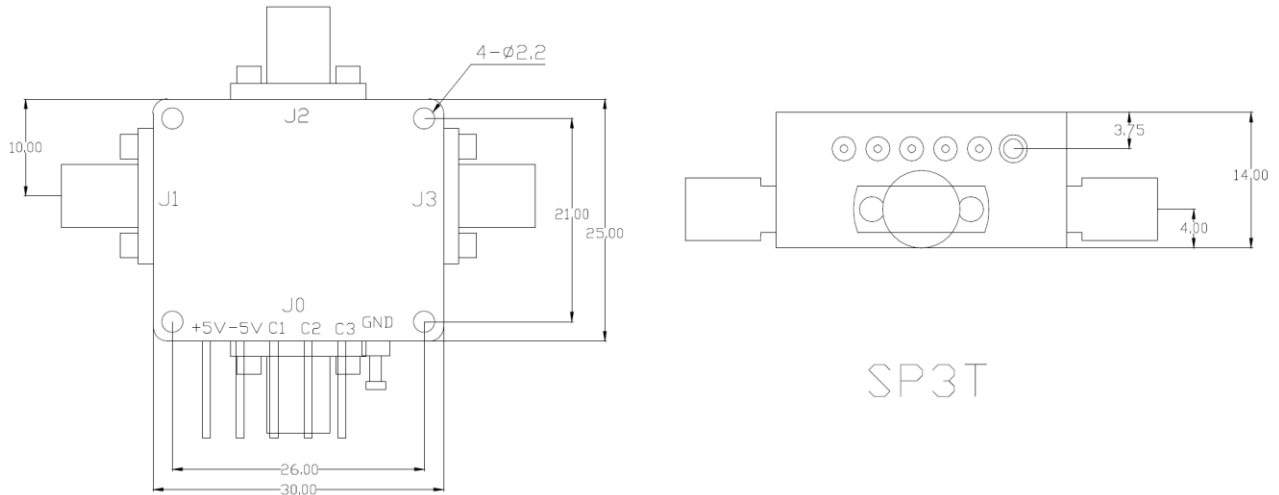
| TTL | Voltage |
|------|--------------|
| High | 2.0 to 5.5V |
| Low | 0 to 0.8V |
| VDD | +5V (+/-5%) |
| VEE | -5V (+/-5%) |

Truth Table

| C1 | C2 | C3 | RF Path |
|----|----|----|---------|
| 1 | 0 | 0 | J0-J1 |
| 0 | 1 | 0 | J0-J2 |
| 0 | 0 | 1 | J0-J3 |



Dimension (mm)



Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

