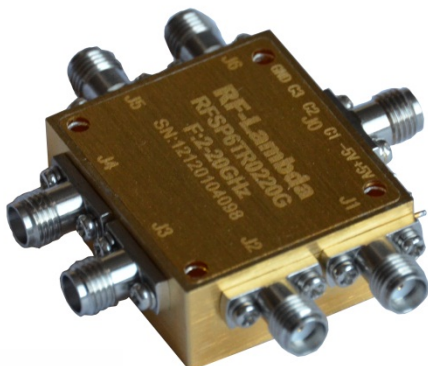




## Reflective 2-20.0GHz Coaxial SP6T Switch



### Features

- Wide Band Operation 2.0-20.0GHz
- High Power Handle Capability up to 5W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -40°C~+85°C
- Customization available upon request

| Specification                 | Reflective type         |                   |                   |        |
|-------------------------------|-------------------------|-------------------|-------------------|--------|
|                               | PN: RFSP6TR0220G        |                   |                   |        |
|                               | Low                     | Med               | High              |        |
| Frequency Range(GHz)          | 2                       | 11                | 20                |        |
| Insertion Loss(dB)            | 2.0dB typ. @2GHz        | 2.4dB typ. @11GHz | 3.2dB typ. @20GHz |        |
| VSWR                          | 1.8                     | 1.5               | 1.8               |        |
| Isolation(dB)                 | 85                      | 85                | 80                |        |
| Switching Speed(ns)           | 150                     | 200               | 250               |        |
| P1dB Power (dBm)              |                         | 31.5              |                   |        |
| Absolutely max. Power (W)     |                         |                   | 5                 |        |
| Weight (g)                    | 45                      |                   |                   |        |
| IIP3 (Input IP3) dBm          | 40                      |                   |                   |        |
| Impedance(Ohms)               | 50Ω                     |                   |                   |        |
| Power Supply (V)              | +/-5 V DC               |                   |                   |        |
| Current(mA)                   | 180mA (+5V) 100mA (-5V) |                   |                   |        |
| Input Connector               | SMA-Female              |                   |                   |        |
| Output Connector              | SMA-Female              |                   |                   |        |
| Finishing                     | Gold Plating            |                   |                   |        |
| Material                      | Brass                   |                   |                   |        |
| Seal                          | Hermetically Sealed     |                   |                   |        |
| Control (TTL Driver Included) | TTL Control             |                   |                   |        |
|                               | C3                      | C2                | C1                | Status |
|                               | 0                       | 0                 | 0                 | Jo-J1  |
|                               | 0                       | 0                 | 1                 | Jo-J2  |
|                               | 0                       | 1                 | 0                 | Jo-J3  |
|                               | 0                       | 1                 | 1                 | Jo-J4  |
|                               | 1                       | 0                 | 0                 | Jo-J5  |
|                               | 1                       | 0                 | 1                 | Jo-J6  |



# RF-LAMBDA

The power beyond expectations

RFSP6TR0220G

| Absolute Maximum Ratings |            |
|--------------------------|------------|
| Biasing                  | +/-5 V     |
| TTL Control Voltage      | +5V/oV     |
| Input RF power           | 5W         |
| Storage Temperature (C°) | -50 ~ +125 |

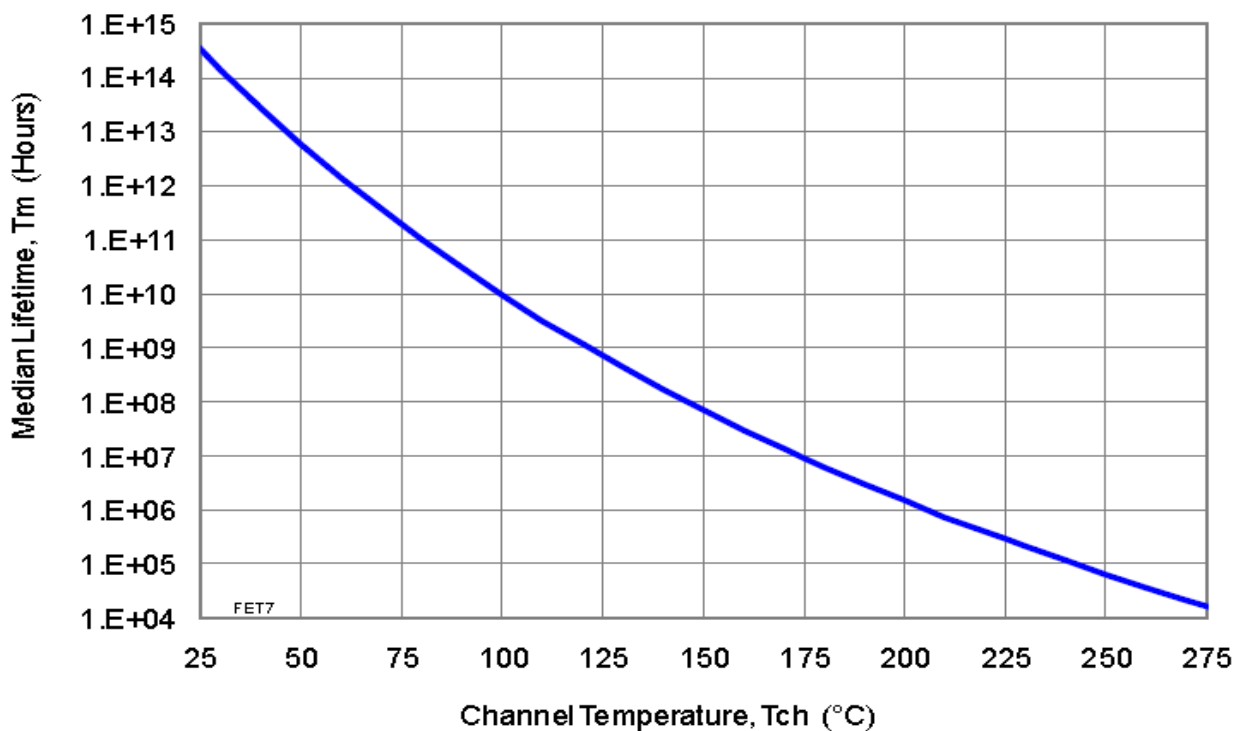
| Biasing Up Procedure |     |
|----------------------|-----|
| Step 1               | -5V |
| Step 2               | +5V |
| Step 3               | TTL |
| Power OFF Procedure  |     |
| Step 1               | +5V |
| Step 2               | -5V |
| Step 3               | TTL |

| Environment specifications   |                                    |
|------------------------------|------------------------------------|
| Operational Temperature (C°) | -45 ~ +85                          |
| Storage Temperature (C°)     | -50 ~ +125                         |
| Altitude                     | 30,000 ft (Controlled environment) |
| Vibration                    | 45g rms (15 degree 2KHz)           |
| Humidity                     | 100% RH at 35c, 95%RH at 40 deg c  |
| Shock                        | 20G for 11msc                      |

| Ordering Information |       |                               |
|----------------------|-------|-------------------------------|
| Part No              | ECCN  | Description                   |
| RFSP6TR0220G         | EAR99 | SP6T 2-20GHz PIN Diode Switch |



Median Lifetime (Tm) vs. Channel Temperature (Tch)



Reflective Coaxial Single Pole Six Throw Switch 2-20.0GHz



# RF-LAMBDA

The power beyond expectations

RFSP6TR0220G

Reflective Coaxial Single Pole Six Throw Switch 2-20.0GHz

