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# MINIATURE COAXIAL SWITCH



DowKey Microwave
CORPORATION
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CMP

# Dual SPDT Miniature

## 6L3 Failsafe | SMA




- DC-18 GHz
- VXI/PXI Platform
- 2M Life Cycles

### RF Characteristics

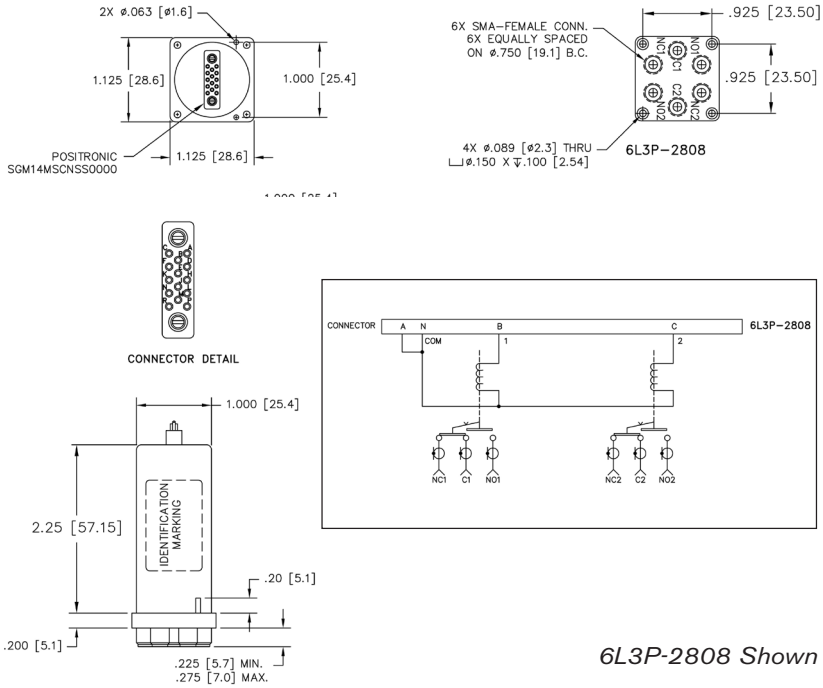
| Frequency GHz | VSWR (max) | Isolation dB (min) | Ins. Loss dB (max) | RF Power Watts (CW) |
|---|---|---|---|---|
| DC-4 | 1.25 | 70 | 0.20 | 100 |
| 4-8 | 1.35 | 65 | 0.30 | 70 |
| 8-12 | 1.40 | 60 | 0.40 | 60 |
| 12-18 | 1.50 | 60 | 0.50 | 45 |

Note: Consult with factory for higher frequencies

## Specifications

**Operating Voltage:**
24 Vdc (20-28 Vdc)
**Coil Current (max. @ nom. Vdc & 25°C):**
24 Vdc 150 mA
**Switching Time:**
20 ms maximum
**Operating Temperature:**
-25°C to +65°C (Standard)
-55°C to +85°C (Extended "T" Option)
**Mechanical Life Cycles:**
2,000,000 minimum
**Vibration, Operating:**
10G RMS, 20-2000 Hz
**Mechanical Shock, Non-Operating:**
50G, 1/2 Sine, 11 ms
**Nominal Weight:**
4.0 oz. (113 g.)

## Mechanical / Electrical Schematic




*6L3P-2808 Shown*

## Part Number Selector

| 6L3 | P | - | 2 | 8 | 08 |
|---|---|---|---|---|---|
| Family | Special Options | | Actuator | Coil Voltage | Connectors |
| 6L3 = 2x SPDT PXI/VXI Platform | P = High Density Rectangular Connector | | 2 = Failsafe | 8 = 24 Vdc | 08 = SMA Female |

# DPDT Miniature




- DC-18 GHz
- VXI/PXI Platform
- 2M Life Cycles

## RF Characteristics

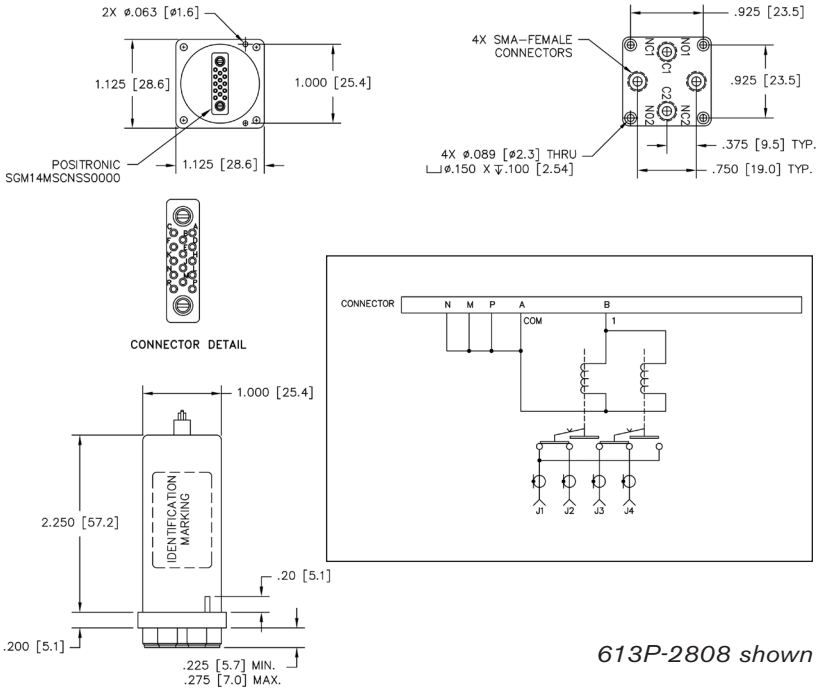
| Frequency GHz | VSWR (max) | Isolation dB (min) | Ins. Loss dB (max) | RF Power Watts (CW) |
|---|---|---|---|---|
| DC-4 | 1.25 | 70 | 0.20 | 100 |
| 4-8 | 1.35 | 65 | 0.30 | 70 |
| 8-12.4 | 1.40 | 60 | 0.40 | 60 |
| 12-18 | 1.50 | 60 | 0.50 | 45 |

Note: Consult with factory for higher frequencies

## Specifications

**Operating Voltage:**
24 Vdc (20-28 Vdc)
**Coil Current (max. @ nom. Vdc & 25°C):**
24 Vdc 300 mA
**Switching Time:**
20 ms maximum
**Operating Temperature:**
-25°C to +65°C (Standard)
-55°C to +85°C (Extended "T" Option)
**Mechanical Life Cycles:**
2,000,000 minimum
**Vibration, Operating:**
10G RMS, 20-2000 Hz
**Mechanical Shock, Non-Operating:**
50G, 1/2 Sine, 11 ms
**Nominal Weight:**
4.0 oz. (113 g.)

## Mechanical




*613P-2808 shown*

## Part Number Selector

| 613 | P | - | 2 | 8 | 08 |
|---|---|---|---|---|---|
| Family | Special Options | | Actuator | Coil Voltage | Connectors |
| 613 = DPDT, PXI/VXI Platform | P = High Density Rectangular Connector | | 2 = Failsafe | 8 = 24 Vdc | 08 = SMA Female |

# SP3T-SP6T Miniature

## 537-567 Normally Open | SMA




- DC-18 GHz
- Low Power
- 1M Life Cycles

### RF Characteristics

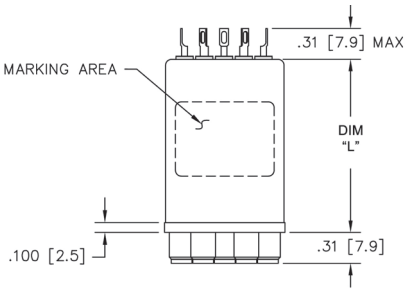
| Frequency GHz | VSWR (max) | Isolation dB (min) | Ins. Loss dB (max) | RF Power Watts (CW) |
|---|---|---|---|---|
| DC-1 | 1.10 | 85 | 0.10 | 100 |
| 1-4 | 1.20 | 80 | 0.20 | 50 |
| 4-8 | 1.30 | 70 | 0.30 | 35 |
| 8-12 | 1.40 | 65 | 0.40 | 25 |
| 12-18 | 1.50 | 60 | 0.50 | 10 |

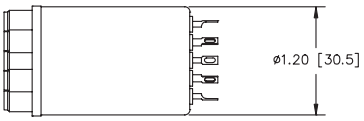
## Specifications

**Operating Voltage:**
24 Vdc (20-28 Vdc)
**Coil Current (max. @ nom. Vdc & 25°C)*:**
12 Vdc 320 mA
24 Vdc 160 mA
28 Vdc 140 mA
**Switching Time:**
15 ms maximum
**Operating Temperature:**
-55 °C to +85°C
**Mechanical Life Cycles:**
1,000,000 minimum
**Vibration, Operating:**
10G RMS, 20-2000 Hz
**Mechanical Shock, Non-Operating:**
50G, 1/2 Sine, 11 ms
**Nominal Weight:**
3.0 oz. (85 g.)

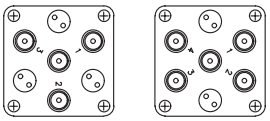
* Performance varies depending on selected options.

## Mechanical




| DIM "L" (MAX) | MODEL | ELEC. SCHEM. |
|---|---|---|
| 1.75 [44.5] | 5X7-5X08 | 1 |
| 2.15 [54.6] | 5X7-5X0802A | 2 |




*567-5X08 Shown*
*For Electrical Schematic, see page # 3-20*

## Part Number Selector

| 5X7 | J | – | 5 | 2 | 08 | 02 | A |
|---|---|---|---|---|---|---|---|

| Family | Special Options | Actuator | Coil Voltage | Connectors | Indicators | Circuit Options |
|---|---|---|---|---|---|---|
| 537 = SP3T | J = 9 Pin Micro 'D' Connector | 5 = Normally Open | 2 = 12 Vdc | 08 = SMA Female | 02 = No Indicator* | A = TTL High |
| 547 = SP4T | S = Epoxy Seal | | 3 = 28 Vdc | | | |
| 567 = SP6T | T = -55°C to + 85°C | | 8 = 24 Vdc | | | |
| | | | 9 = 15 Vdc | | | |

*Declared only with Circuit Options

# SP3T-SP6T Miniature



- DC-18 GHz
- VXI/PXI Platform
- 2M Life Cycles

## RF Characteristics

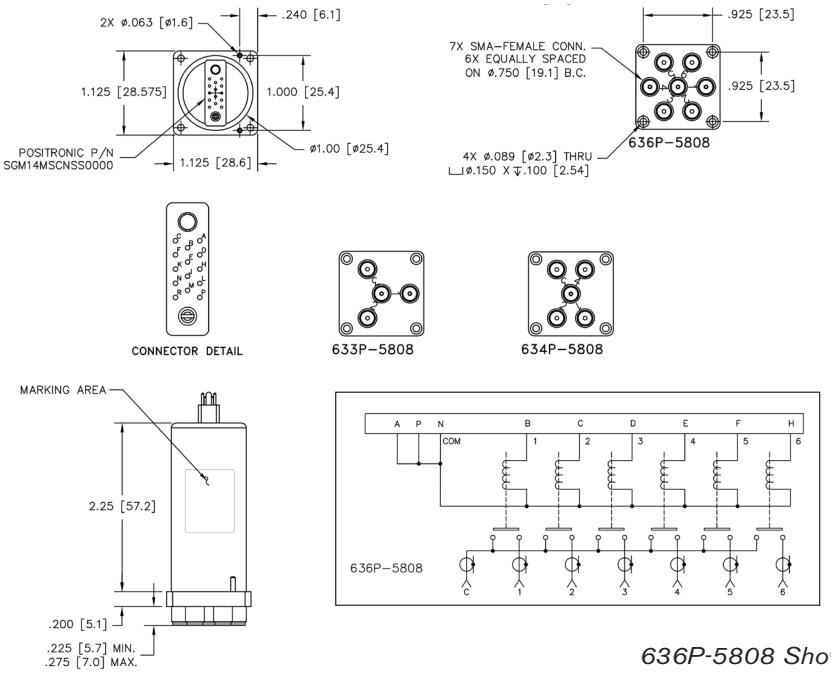
| Frequency GHz | VSWR (max) | Isolation dB (min) | Ins. Loss dB (max) | RF Power Watts (CW) |
|---|---|---|---|---|
| DC-4 | 1.25 | 70 | 0.20 | 100 |
| 4-8 | 1.35 | 65 | 0.30 | 70 |
| 8-12 | 1.40 | 60 | 0.40 | 60 |
| 12-18 | 1.50 | 60 | 0.50 | 45 |

Note: Consult with factory for higher frequencies

## Specifications

**Operating Voltage:**
24 Vdc (20-28 Vdc)
**Coil Current (max. @ nom. Vdc & 25°C):**
24 Vdc 150 mA
**Switching Time:**
20 ms maximum
**Operating Temperature:**
-25°C to +65°C (Standard)
-55°C to +85°C (Extended "T" Option)
**Mechanical Life Cycles:**
2,000,000 minimum
**Vibration, Operating:**
10G RMS, 20-2000 Hz
**Mechanical Shock, Non-Operating:**
50G, 1/2 Sine, 11 ms
**Nominal Weight:**
4.0 oz. (113 g.)

## Mechanical / Electrical Schematic




*636P-5808 Shown*

## Part Number Selector

**636 P - 5 8 08**

| Family | Special Options | Actuator | Coil Voltage | Connectors |
|---|---|---|---|---|
| 633 = SP3T, PXI/VXI Platform | P = High Density Rectangular Connector | 5 = Normally Open | 8 = 24 Vdc | 08 = SMA Female |
| 634 = SP4T, PXI/VXI Platform | | | | |
| 636 = SP6T, PXI/VXI Platform | | | | |

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