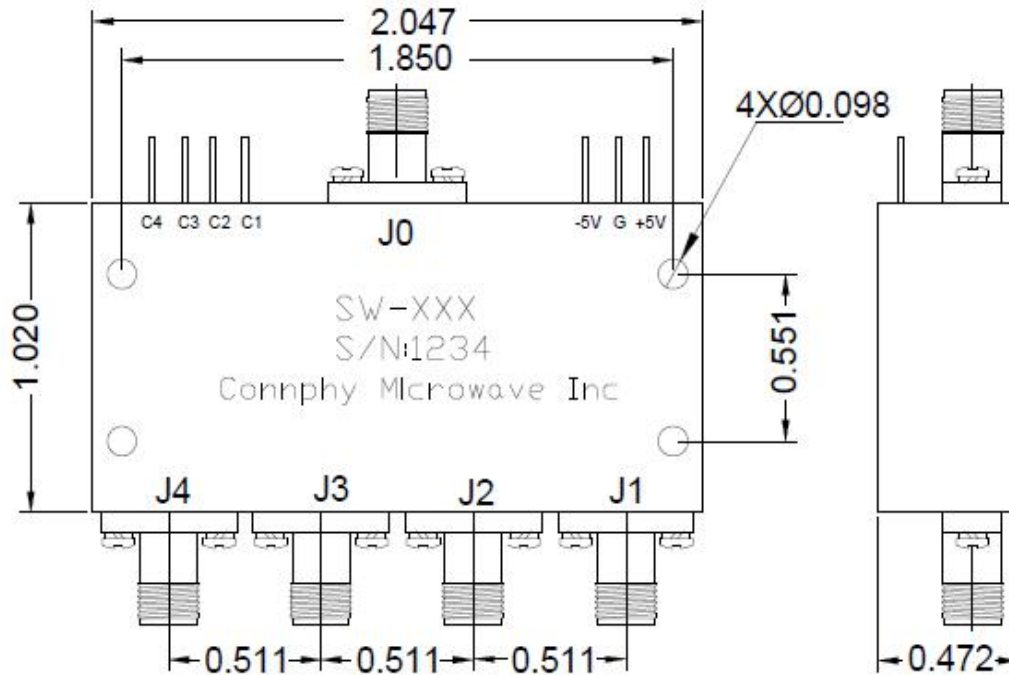


**SW-12G18G-4A-S** is a single pole, four throw, absorptive switch designed to operate over the 12 to 18GHz frequency range. This model is designed to handle 23dBm max input power. The switch offers fast switching speeds of 50nsec max., low insertion loss of 3.6dB and high isolation of 80dB. The DC supplies are 120mA @ ±5 V.

**Mechanical Outline(Unit: Inch):**



**Specifications:**

|                  |                                      |
|------------------|--------------------------------------|
| Frequency:       | 12 to 18GHz                          |
| Insertion Loss:  | 3.6dB max                            |
| Isolation:       | 80dB min                             |
| Switching Speed: | 50ns max                             |
| Power Handling:  | 23dBm max                            |
| VSWR:            | 1.7:1 max                            |
| Voltage/Current: | 120mA @ ±5 V typical                 |
| Control logic:   | TTL                                  |
| Connectors:      | SMA Female                           |
| Type:            | Absorptive                           |
| TTL Truth Table: | Cn=0, Others=1;<br>Path State: J0-Jn |

**Environmental Ratings:**

|              |  |
|--------------|--|
| Temperature: | -25°C to +71 °C Operating<br>-65 °C to +100 °C Non-Operating |
| Vibration:   | MIL-STD-202F, Method 204D Cond. B                            |
| Altitude:    | MIL-STD-202F, Method 105C Cond. B                            |

| Pin Diode Switch<br>SW-12G18G-4A-S |                   |                      |  |
|------------------------------------|-------------------|----------------------|--|
| DRAWN:                             | DWG NO.:          | REV CODE:<br>Rev.1.0 | <br><a href="http://www.connphy.com">www.connphy.com</a><br><a href="mailto:sales@connphy.com">sales@connphy.com</a> |
| CHECKRD:                           | DATE:<br>20/05/16 | SHEET :<br>1 OF 1    |  |
| ISSUED:                            | SIZE:<br>A        | SCALE :<br>N / A     | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.  |