## GENERAL DESCRIPTION

The KSW177311 is a Silicon PIN diode Non Reflective high speed switch covering 2 to 18 GHz . The input accepts TTL and 5.0 V CMOS logic. The switch is composed of an integral driver which converts Logic levels into positive and negative current to bias the microwave silicon diodes both on and off. The switch is a series shunt configuration with a 50 ohm termination in the J 1 and J2 arm in the off state


## MECHANICAL

The KSW177311 is constructed utilizing low loss microwave micro-strip transmission line, monolithic PIN diode switch elements and thin film alumina drive circuitry. All connections are made with gold wire bonds. The housing is gold plated channelized Aluminum with soldered glass/metal seals. DC connections made from rugged 20 mil gold plated pins and RF connection are thru field replaceable stainless steel flange mounted SMA connectors

| TRUTH TABLE |  |  |
| :---: | :---: | :---: |
| E1 | J0-J1 | J0-J2 |
| 1 | LOSS | ISO |
| 0 | ISO | LOSS |



| ABSOLUTE MAXIMUM |  |  | Min | Max |
| :--- | :--- | :--- | :---: | :--- |
| Syml | Uarameter | Units |  |  |
| +V | Supply Voltage Positive | 0 | +7 | Volts |
| $\mathrm{V}_{\text {ee }}$ | Supply Voltage Negative | -16 | 0 | Volts |
| To | Operating Temperature | -54 | +125 | Deg C |
| CW | CW Survival |  | 33 | dBm |



