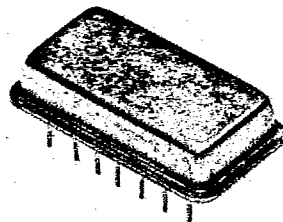


OS-1044

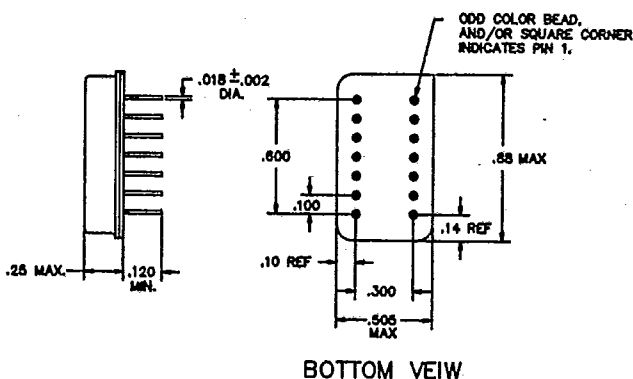
A-29-25

# 10-1500 MHz SPDT Solid State RF Switch

- Low Insertion Loss
- Low VSWR ("ON" Condition Only)
- TTL Control
- Hermetic Enclosure
- High Speed Switching



## Outline Drawing



## Absolute Maximum Ratings

Ambient Operating Temperature .....-54°C to + 100°C  
Storage Temperature .....-65°C to + 125°C  
Maximum DC Voltage..... + 7 Volts

## Electrical Specifications @ 25°C

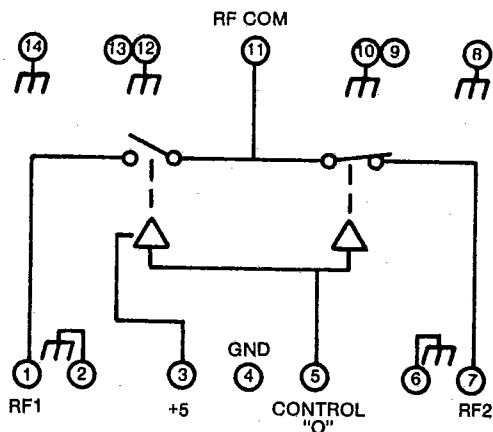
| PARAMETER             | TYP.    | MIN.    | MAX.   |
|-----------------------|---------|---------|--------|
| Frequency Range, MHz  | ---     | 10-1500 | ---    |
| Insertion Loss        |         |         |        |
| 10-500 MHz            | 1.5dB   | ---     | 2.0dB  |
| 500-1500 MHz          | 1.8dB   | ---     | 2.5dB  |
| Isolation             |         |         |        |
| 10-500 MHz            | 62dB    | 50dB    | ---    |
| 500-1500 MHz          | 50dB    | 45dB    | ---    |
| VSWR                  | 1.6:1   | ---     | 2.0:1  |
| Switching Speed       | 0.8usec | ---     | 1usec  |
| RF Power-Operational  | ---     | ---     | +10dBm |
| RF Power-Non Destruct | ---     | ---     | +30dBm |
| DC Power<br>+5 Volts  | 35ma    | ---     | 50ma   |

CONTROL 1 Line TTL, Load Factor 2, LS Series

### SWITCHING CONDITIONS

LOGIC "1" = RF1 ON; RF OFF  
LOGIC "0" = RF1 OFF; RF ON

## Schematic Diagram



## Typical Performance

