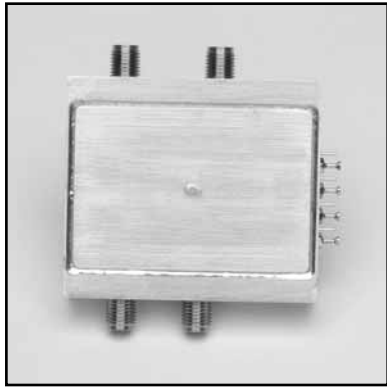




## MODEL NUMBER CSW36333

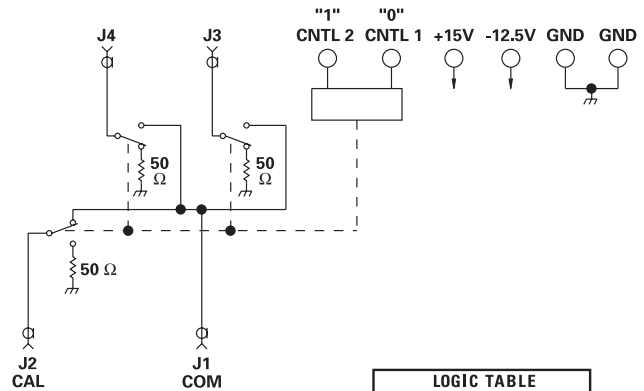
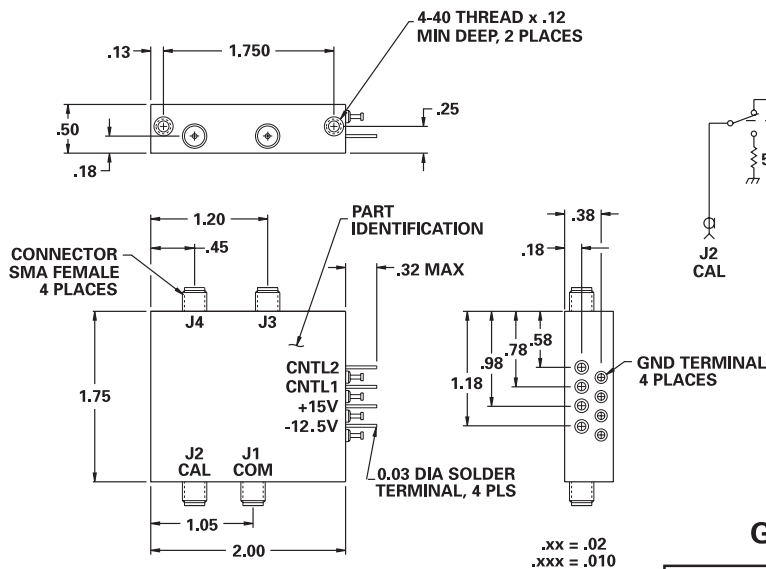
## GaAs SP3T

### FEATURES

- 2-2500 MHz
- 70 dB Isolation
- $\pm 0.1$  dB Amplitude Tracking Port-to-Port

- $\pm 0.5$  Degrees Phase Tracking Port-to-Port
- All-Off-State

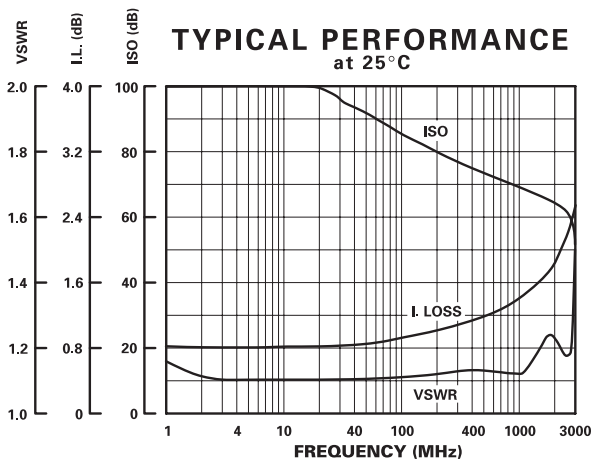
## SP3T



| LOGIC TABLE |        |          |
|-------------|--------|----------|
| Input Ctrl  |        | Function |
| Ctrl 1      | Ctrl 2 |          |
| 0           | 0      | All Off  |
| 0           | 1      | J1 - J2  |
| 1           | 0      | J1 - J3  |
| 1           | 1      | J1 - J4  |

## GUARANTEED PERFORMANCE

| Parameter                                       | Min                  | Typ                    | Max            | Units     | Conditions                                                              |
|-------------------------------------------------|----------------------|------------------------|----------------|-----------|-------------------------------------------------------------------------|
| Operating Frequency                             | 2                    |                        | 2500           | MHz       |                                                                         |
| DC Current                                      |                      | 11<br>5                | 30<br>30       | mA        | At +15 VDC Supply<br>At -12.5 VDC Supply                                |
| Control Type                                    |                      | TTL                    |                |           | 2 Line, See Logic Chart                                                 |
| Control Current                                 | High<br>Low          | $\pm 1.0$<br>$\pm 1.0$ | 20<br>-400     | $\mu$ A   | $V_{IH} = +2.7V$<br>$V_{IL} = +0.5V$                                    |
| Isolation                                       | 50                   | 70                     |                | dB        |                                                                         |
| Insertion Loss                                  |                      | 1.40<br>2.15           | 1.7<br>3       | dB        | 2 - 1000 MHz<br>1000 - 2500 MHz                                         |
| Amplitude Balance                               |                      | $\pm 0.1$              | $\pm 0.3$      | dB        | Reference between the Calibration Port and any Input Port of the Switch |
| Phase Tracking: Port to Port (Max Differential) |                      | $\pm 0.5$<br>$\pm 1.5$ | 2<br>10        | DEG       | 2 - 1000 MHz<br>1000 - 2500 MHz                                         |
| VSWR                                            | Thru<br>Termination  | 1.25/1<br>1.1/1        | 1.4/1<br>1.5/1 |           |                                                                         |
| Impedance                                       |                      | 50                     |                | OHMS      |                                                                         |
| Switching Speed                                 |                      | 3.7                    | 10             | $\mu$ SEC | 50% TTL to 90% / 10% RF                                                 |
| Transition (Rise/Fall) Time                     |                      | 1.5                    | 10             | $\mu$ SEC | 10% / 90% or 90% / 10% RF                                               |
| Switching (Video) Transients                    |                      | 0.18                   | 0.30           | 1.0       | V<br>Com when Switched to All Off                                       |
| Intercept Points                                | 2nd<br>3rd           | +73<br>+38             | +88<br>+47     | dBm       | 1.3 MHz / 2.3 MHz<br>1.3 MHz / 1.6 MHz                                  |
| RF Power                                        | Operate<br>No Damage | +28<br>+30             | +20<br>+30     | dBm       | 0.1 dB Compression                                                      |
| Operating Temperature                           |                      | -55                    | +25            | +85       | $^{\circ}$ C<br>TA                                                      |



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