

# MODEL NUMBER DSW79177

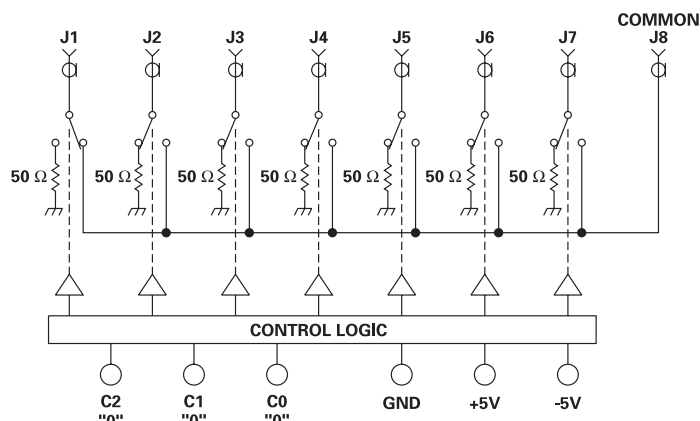
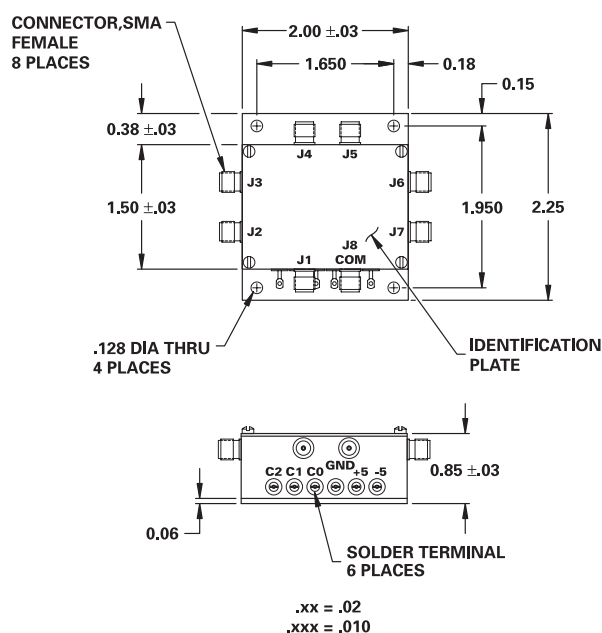
## Switch SP7T

### FEATURES

- 800 - 2050 MHz
- 3 Line BCD Control
- 40 NSec Switching Speed
- Small Size
- +75 dBm IP2
- Non-Reflective

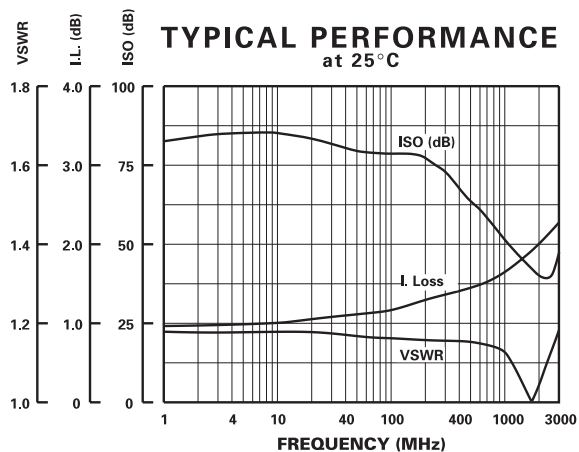
### SP7T

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LOGIC TABLE

| C2 | C1 | C0 | THRU     |
|----|----|----|----------|
| 0  | 0  | 0  | J8 to J1 |
| 0  | 0  | 1  | J8 to J2 |
| 0  | 1  | 0  | J8 to J3 |
| 0  | 1  | 1  | J8 to J4 |
| 1  | 0  | 0  | J8 to J5 |
| 1  | 0  | 1  | J8 to J6 |
| 1  | 1  | 0  | J8 to J7 |
| 1  | 1  | 1  | All Off  |



### GUARANTEED PERFORMANCE

| Parameter                    | Min         | Typ    | Max   | Units | Conditions                |
|------------------------------|-------------|--------|-------|-------|---------------------------|
| Operating Frequency          | 800         |        | 2050  | MHz   |                           |
| DC Current                   |             | 0.027  | 3     | mA    | At +5 VDC Supply          |
|                              |             | 0.037  | 5     | mA    | At -5 VDC Supply          |
| Control Type                 |             | TTL    |       |       | 3 Line BCD<br>See Table   |
| Control Current              | High        | 0      | 2     | μA    | V <sub>IH</sub> = +2.7V   |
|                              | Low         | 0      | 2     | μA    | V <sub>IL</sub> = +0.5V   |
| Isolation                    | 40          | 44     |       | dB    |                           |
| Insertion Loss               |             | 1.6    | 2.0   | dB    | 800 - 950 MHz             |
|                              |             | 2.0    | 2.5   | dB    | 1750 - 2050 MHz           |
| VSWR                         | Thru        | 1.18/1 | 1.6/1 |       |                           |
|                              | Termination | 1.13/1 | 2.0/1 |       |                           |
| Impedance                    |             | 50     |       | OHMS  |                           |
| Switching Speed              |             | 40     | 75    | nSec  | 50% TTL to 90% / 10% RF   |
| Transition (Rise/Fall) Time  |             | 4      |       | nSec  | 10% / 90% or 90% / 10% RF |
| Switching (Video) Transients |             | 39     |       | mV    | Peak Value                |
| Intercept Points             | 2nd         | +75    |       | dBm   |                           |
|                              | 3rd         | +38    |       | dBm   |                           |
| RF Power                     | Operate     | +14.6  | +12   | dBm   | 0.1 dB Compression        |
|                              |             | +20    | +18   | dBm   | 1 dB Compression          |
| Operating Temperature        | 0           | +25    | +71   | °C    | TA                        |



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