

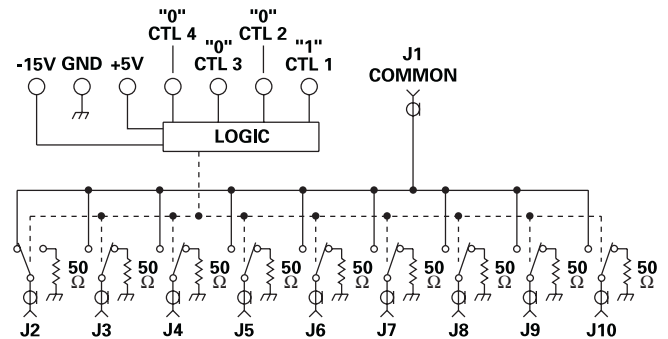
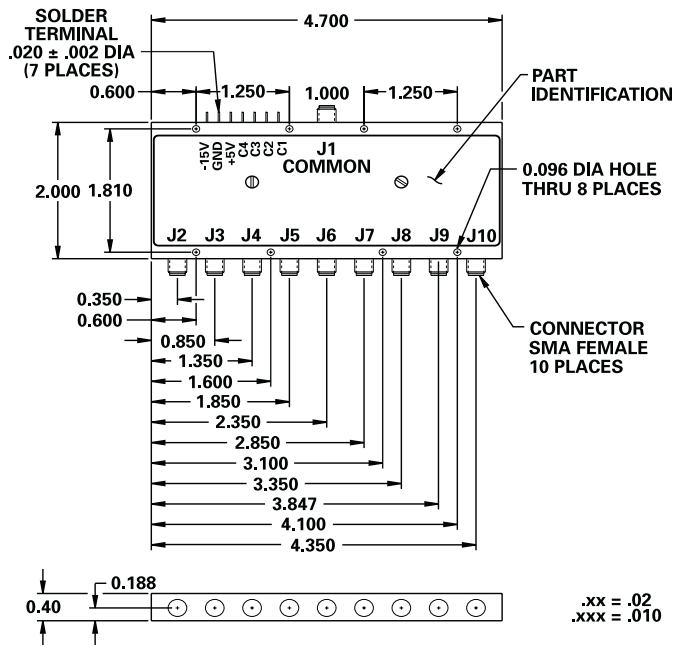
# MODEL NUMBER DSW96213

## Switch SP9T

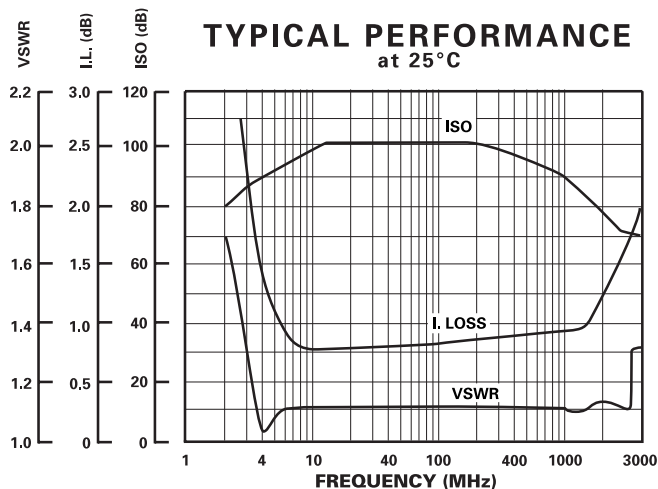
### FEATURES

- 150-2000 MHz
- High Isolation, 76 dB typ
- Low Insertion Loss, 1.4 dB typ
- Non-Reflective
- SMA Connectors

### SP9T



| LOGIC TABLE |       |       |       |              |
|-------------|-------|-------|-------|--------------|
| CTL 4       | CTL 3 | CTL 2 | CTL 1 | J1 COMMON TO |
| 0           | 0     | 0     | 1     | J2           |
| 0           | 0     | 1     | 0     | J3           |
| 0           | 0     | 1     | 1     | J4           |
| 0           | 1     | 0     | 0     | J5           |
| 0           | 1     | 0     | 1     | J6           |
| 0           | 1     | 1     | 0     | J7           |
| 0           | 1     | 1     | 1     | J8           |
| 1           | 0     | 0     | 0     | J9           |
| 1           | 0     | 0     | 1     | J10          |
| ALL OTHERS  |       |       |       | INVALID      |



### GUARANTEED PERFORMANCE

| Parameter                    | Min                  | Typ   | Max   | Units | Conditions                   |
|------------------------------|----------------------|-------|-------|-------|------------------------------|
| Operating Frequency          | 150                  |       | 2000  | MHz   |                              |
| DC Current                   |                      | 50    | 75    | mA    | At +5 VDC Supply             |
|                              |                      | 44    | 60    | mA    | At -15 VDC Supply            |
| Control Type                 |                      | TTL   |       |       | See Logic Chart              |
| Control Current              | High<br>Low          | ±1    | ±100  | μA    | V <sub>IH</sub> = +2.7 V     |
|                              |                      | ±1    | ±100  | μA    | V <sub>IL</sub> = +0.5 V     |
| Isolation                    | 60                   | 76    |       | dB    |                              |
| Insertion Loss               |                      | 1.2   | 1.5   | dB    | 150 - 1000 MHz               |
|                              |                      | 1.4   | 2.0   | dB    | 1000 - 1500 MHz              |
|                              |                      | 1.65  | 2.5   | dB    | 1500 - 2000 MHz              |
| VSWR                         | Thur<br>Termination  | 1.2/1 | 1.5/1 |       |                              |
|                              |                      | 1.1/1 | 1.5/1 |       |                              |
| Impedance                    |                      | 50    |       | OHMS  |                              |
| Switching Speed              |                      | 0.63  | 5.0   | μSEC  | 50% TTL to 90% / 10% RF      |
| Transition (Rise/Fall) Time  |                      | 250   |       | nSEC  | 10% / 90% or 90% / 10% RF    |
| Switching (Video) Transients |                      | 1.3   |       | V     | Peak Value                   |
| Intercept Points             | 2nd                  | +77   |       | dBm   |                              |
|                              | 3rd                  | +42   |       | dBm   |                              |
| RF Power                     | Operate<br>No Damage | +25   | +20   | dBm   | 0.1 dB Compression           |
|                              |                      |       | +30   | dBm   | At All Switch Positions Only |
| Operating Temperature        | -28                  | +25   | +90   | °C    | TA                           |