## HERLES

## Model 2629 - Low Cost SP6T Switch

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## Application Notes for RF Switch

MODEL 2629

- Frequency range: 1 to 18 GHz
- Isolation: up to 55 dB
- All in-line outputs
- Phase and amplitude matched
- Non-reflective


PERFORMANCE CHARACTERISTICS

| CHARACTERISTIC |  |
| :--- | :---: |
| FREQUENCY RANGE (GHz) | $1-18$ |
| MIN. ISOLATION (dB) | 55 |
| MAX. INSERTION LOSS (dB) | 4.8 |
| MAX. VSWR (ON/OFF) | 2.2 |
| PHASE MATCHING BETWEEN <br> PORTS (deg, max) | $\pm 10$ |
| AMPLITUDE MATCHING <br> BETWEEN PORTS (dB, max) | $\pm 0.6$ |
| HARMONICS @ +25 dBm (dBc, <br> max) | -35 |

## Switching Time

ON
time
OFF
time

Power Handling Capability
Without Performance
Degradation $\qquad$ OFF port 100 mW cw or peak ON port 1W average
Survival
Power $\qquad$ OFF port 10W peak ON port 75 W peak ( $1 \mu \mathrm{sec}$ max. pulse width)

ENVIRONMENTAL RATINGS
Operating Temperature

| Range ................................. | $-65^{\circ} \mathrm{C}$ to $+110^{\circ} \mathrm{C}$ |
| :---: | :---: |
| Non-Operating Temperature Range | $-65^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| Humidity | MIL-STD-202F, Method 103B, Cond. B (96 hrs. at 95\%) |
| Shock ................................... | MIL-STD-202F, Method 213B, Cond. B (75G, 6 msec ) |
| Vibration | MIL-STD-202F, Method 204D, Cond. B (.06" double amplitude or 15G, whichever is less) |
| Altitude | MIL-STD-202F, Method 105C, Cond. B ( $50,000 \mathrm{ft}$.) |
| Temp. Cycling ........................ | MIL-STD-202F, Method 107D, Cond. A, 5 cycles |

$+5 \mathrm{~V} \pm 5 \%, 250 \mathrm{~mA}$ max
$-12 \mathrm{~V} \pm 5 \%, 100 \mathrm{~mA}$ max

## Control Characteristics

Control Input


DIMENSIONS AND WEIGHTS


WEIGHT (APPROX): 300 grams, 10.5 oz a

Dimensional Tolerances, unless otherwise indicated: .XX $\pm .02 ;$. $\mathrm{XXX} \pm .005$

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