



DEFENSE ELECTRONICS COMMERCIAL TECHNOLOGIES



- HOME
- COMPANIES
- ABOUT US
- NEWS
- INVESTOR RELATIONS
- EMPLOYMENT
- CONTACT US

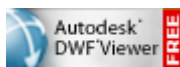
[Defense Electronics](#)> [Microwave Products](#)> [Switches](#) [View Printable Version](#)

Model 2629 Low Cost SP6T Switch with Integrated Driver

[How to Buy](#)

- **Frequency range: 1 to 18 GHz**
MODEL 2629
- **Isolation: up to 55 dB**
Model 2629 is a Low Cost high-performance terminated SP6T switch that operates over the full instantaneous bandwidth of 1 to 18 GHz with ON and OFF times of 500 nsec.
- **All in line outputs**
- **Designed for phase matching**
The Model 2629 is equipped with an integrated driver that is powered by + 5 and - 12 volt supplies. The proper currents required to switch the ports ON or OFF are provided by the driver, which is controlled by external logic signals.

product search



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 Ports (deg, Max)	±10
Amplitude Matching Between Ports (dB, Max)	±0.6
Harmonics @ +25dBm (dBc,Max)	-35

Switching Time

Power Supply Requirements

ON Time	500 nano sec max.	+5V ±5%, 250 mA
OFF Time	500 nano sec max.	- 12V ±5%, 100 mA

Power Handling Capability

Without Performance Degradation To OFF port 100 mW cw or peak. To ON port 500 mW.

Survival Power To OFF port 1W average, 10W peak, and 75W peak to ON port (1 µsec max. pulse width)

Control Characteristics

Control Input Impedance Schottky TTL, two unit loads. (A unit load is 2 mA sink current and 50 µA source current.)

Control Logic Logic "O" (- 0.3 to + 0.8V) for Port "ON"

Logic" 1 " (+ 2.0 to + 5.0V) for Port "OFF".

ENVIRONMENTAL RATINGS

Operating Temperature Range -65° C to + 110° C
Non-Operating Temperature Range -65° C to + 125° C

[Application Notes](#)

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,

Temp. Cycling Cond. B (50,000 ft.) MIL-STD-202F, Method 107D, Cond. A, 5 cycles

Dimensions & Weights

Weight 1.00 oz. (280 gm) approx.

Dimensional Tolerances, unless otherwise indicated: . xx ± .02; xxx + - .005

PIN OUT	
PIN	FUNCTION
1	+5V
2	N/C
3	J2 CONTROL
4	N/C
5	J4 CONTROL
6	N/C
7	J6 CONTROL
8	-12V
9	J1 CONTROL
10	N/C
11	J3 CONTROL
12	N/C
13	J5 CONTROL
14	N/C
15	GND

