

# SP4T RF SWITCH

## MODEL TWD6018

Package: 14 Lead DIP Package (DP11)  
 Also Available In: Connectorized Housings

### Features

- 5 - 3000 MHz
- Fast Switching Speed: 15 ns Typical (GaAs)
- RF1 - RF4 Terminated in "OFF" Position
- Environmental Screening Available

### Absolute Maximum (No Damage) Ratings

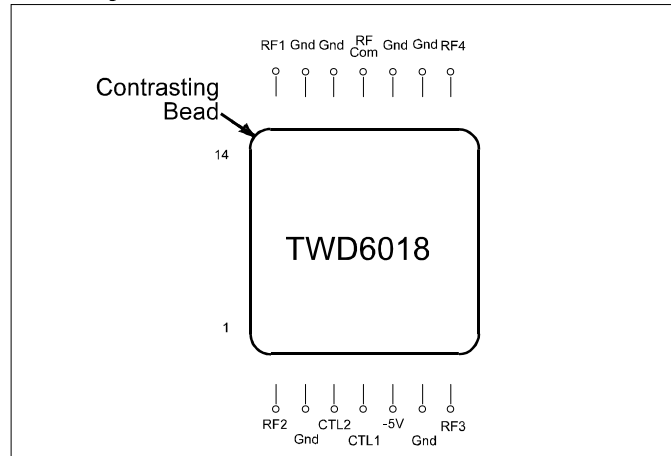
Ambient Operating Temperature ..... -55°C to +85 °C  
 Storage Temperature ..... -65°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... -6.0 Volts  
 Continuous RF Input Power ..... +30 dBm

### Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 3000 MHz	5 - 3000 MHz
Insertion Loss (dB)	1.4	2.5 Max.
Isolation (dB)	50	30 Min.
VSWR	1.5:1	2.3:1 Max.
Switching Speed (ns)	15	30 Max.
Transients (mV)	80	—
1 dB Compression (dBm)		
50 MHz	21	—
500 - 3000 MHz	27	—
Intercept Points (dBm)	IP2 IP3	
50 MHz	+62 +40	—
500 - 3000 MHz	+68 +46	—
DC	Vdc	-5
	mA	2.5
		-5
		5.0 Max.

Note: Care should always be taken to effectively ground the case of each unit.

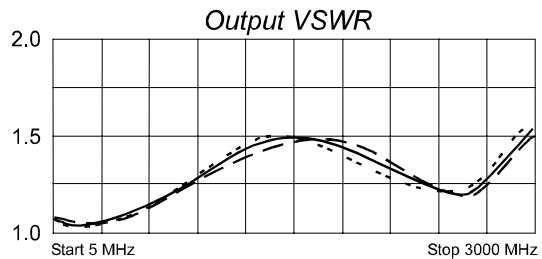
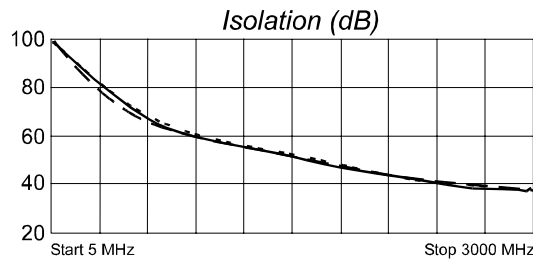
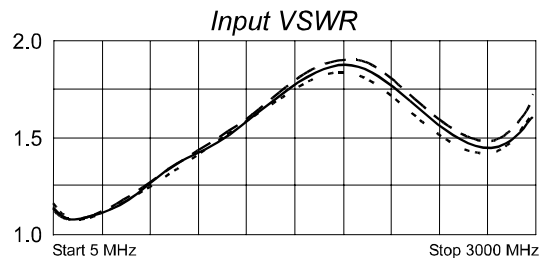
### Pin Layout



### Truth Table

CTL2	CTL1	THRU PATH
0	0	COM TO RF 1
0	1	COM TO RF 2
1	0	COM TO RF 3
1	1	COM TO RF 4

### Typical Performance Data



Legend ——— +25 °C    - - - +85 °C    - - - - -55 °C



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