


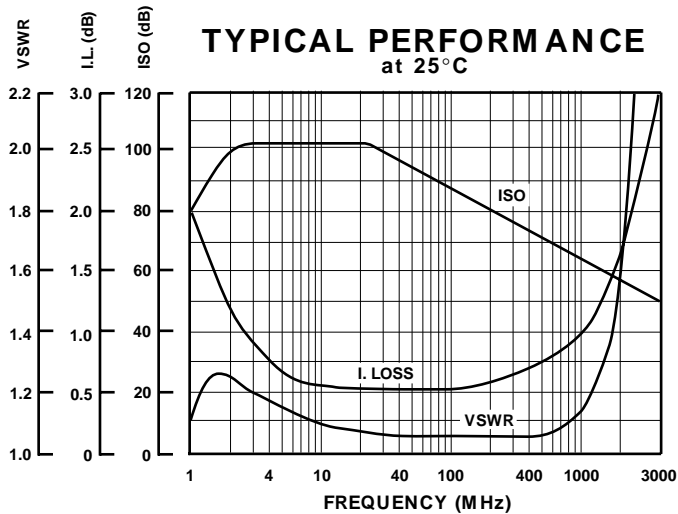
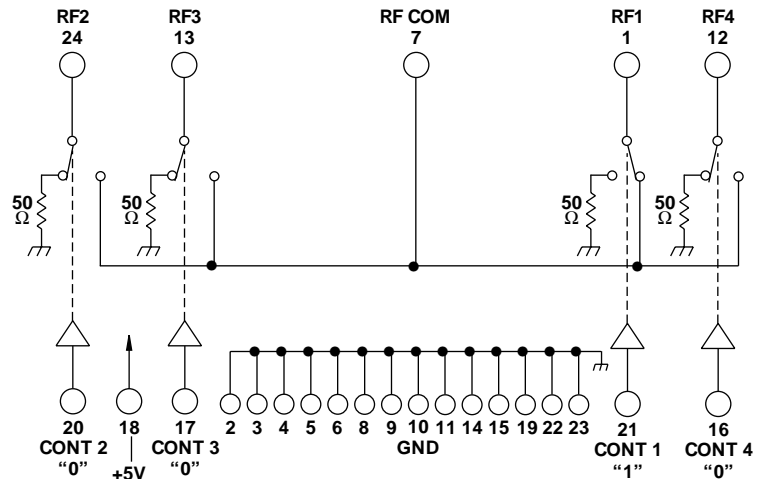
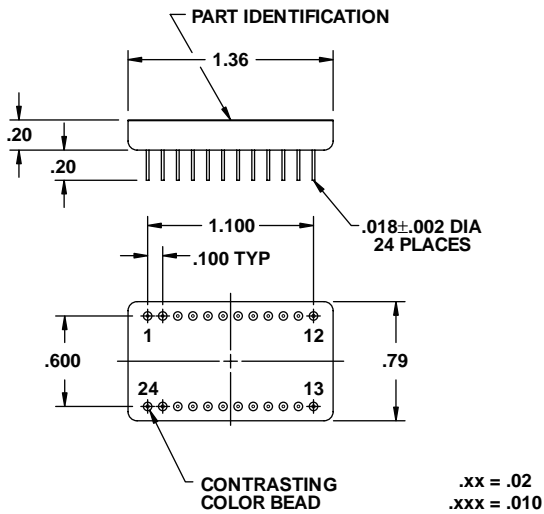
**FEATURES**

- 10 - 1000 MHz
- 18 mA, +5 VDC
- Low Insertion Loss
- 70 dB Isolation < 500 MHz
- 60 dB Isolation < 1000 MHz
- Non-Reflective
- TTL Driver
- 24 Pin DIP
- See DS0744 For Surface Mount Version



**MODEL NO.  
DS0644**

**PIN Diode SP4T**



**GUARANTEED PERFORMANCE**

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	10		1000	MHz	
DC Current		18	23	mA	At +5 VDC Supply
Control Type		TTL			4 Line Logic "1" = Thru Logic "0" = Isolation
Control Current		< 0.1	±10	µA	V <sub>IH</sub> = +2.7V V <sub>IL</sub> = +0.5V
Insertion Loss		0.63	1.0	dB	10 - 100 MHz
		1.00	1.5	dB	100 - 1000 MHz
Isolation	80	88		dB	10 - 100 MHz
	60	68		dB	100 - 500 MHz
	50	58		dB	500 - 1000 MHz
VSWR	Thru	1.11/1	1.3/1		10 - 1000 MHz
	Termination	1.13/1	1.5/1		10 - 1000 MHz
Impedance		50		OHMS	
Switching Speed		1.6	3	µSEC	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		0.5		µSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients		0.5		V	Peak Value
Intercept Points	2nd	+66		dBm	400 MHz / 575 MHz
	3rd	+43		dBm	200 MHz / 575 MHz
RF Power	Operate	+10	+7	dBm	10 - 20 MHz
		+16	+10	dBm	20 - 100 MHz
		+25	+21	dBm	100 - 1000 MHz
	No Damage		+27	dBm	
Operating Temperature	-55	+25	+125	°C	TA