

## FEATURES

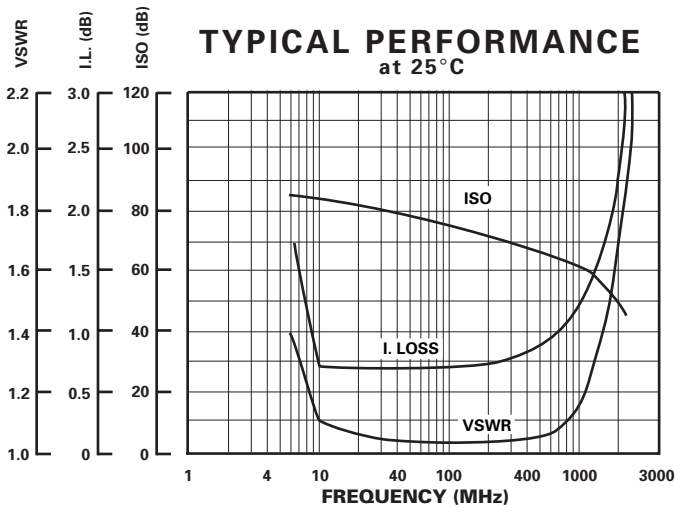
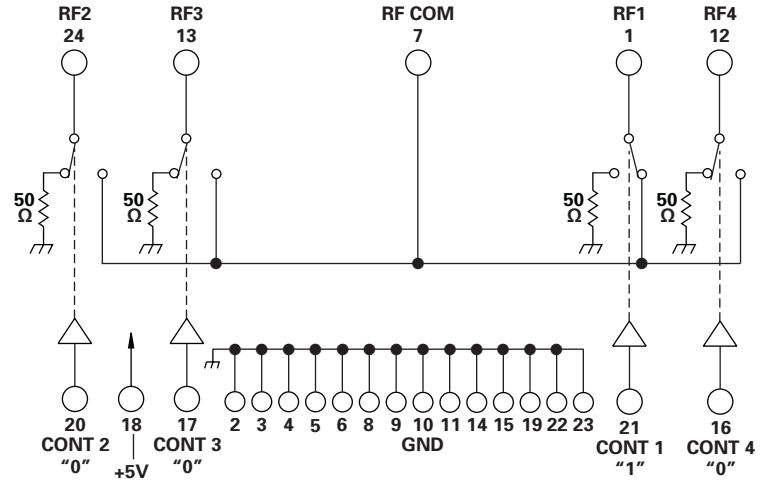
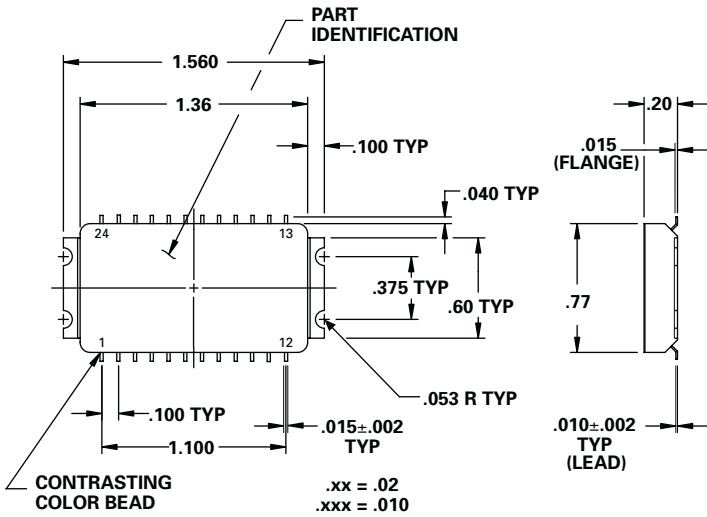
- 10 - 1000 MHz
- 18 mA, +5 VDC
- Low Insertion Loss
- High Isolation
- TTL Driver
- 24 Pin Surface Mount Package
- See DS0644 For 24 Pin DIP Version



**MODEL NO.  
DS0744**

**PIN Diode SP4T**

**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	High Low	1 1	±10 ±10	μA	V <sub>IH</sub> = +2.7V V <sub>IL</sub> = +0.5V
Insertion Loss		0.7 1.2	1.0 1.5	dB	40 - 100 MHz 100 - 1000 MHz
Isolation	75 60 50	79 67 58		dB	10 - 100 MHz 100 - 500 MHz 500 - 1000 MHz
VSWR	Thru Termination	1.2/1 1.3/1	1.5/1 1.5/1		
Impedance		50		OHMS	
Switching Speed		2.4	3	μSEC	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		0.7		μSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients		2.2		V	Peak Value
Intercept Points	2nd 3rd	+81 +45		dBm	400 MHz / 575 MHz 200 MHz / 575 MHz
RF Power	Operate  No Damage	+9 +15 +25	+7 +10 +21 +27	dBm	10 - 20 MHz 20 - 100 MHz 100 - 1000 MHz
Operating Temperature	-55	+25	+125	°C	TA