

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

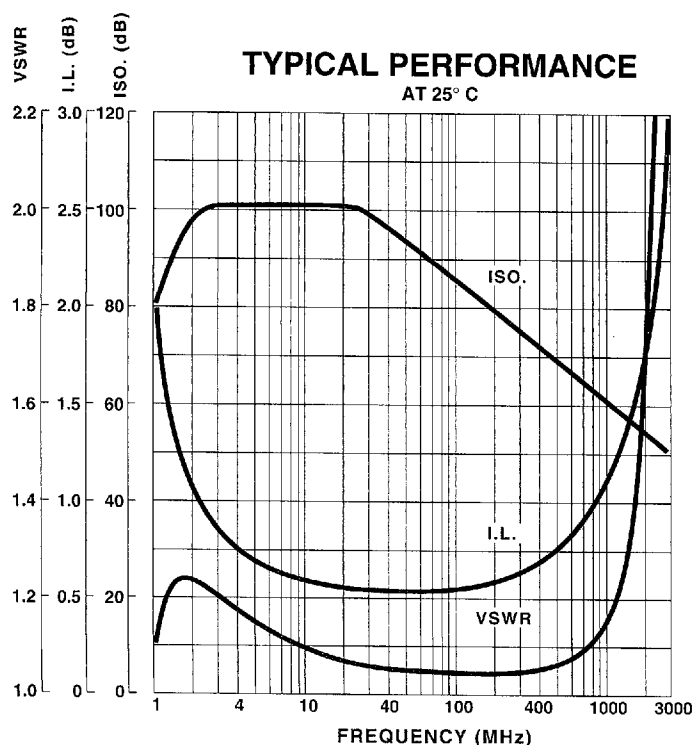
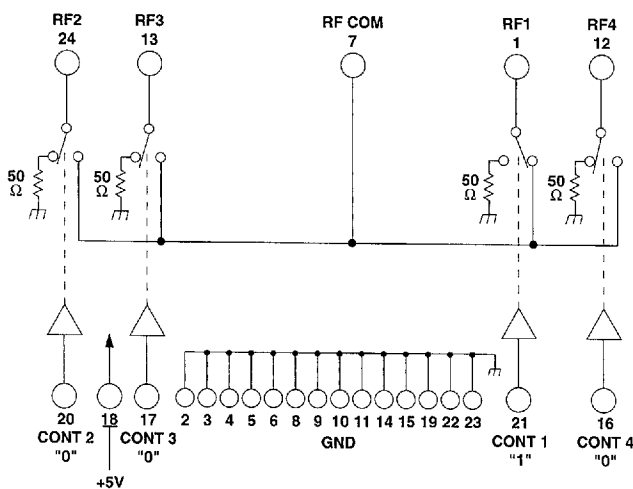
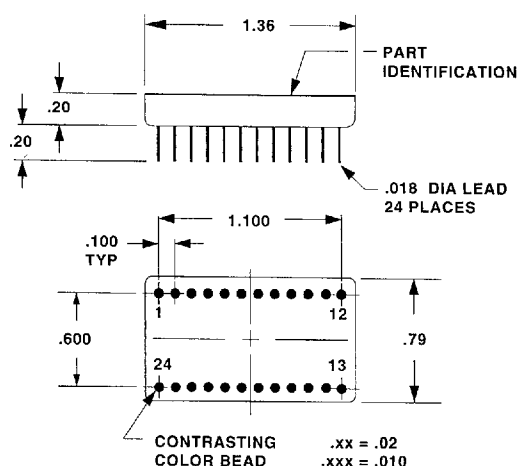


**MODEL NO.
DS0644**

PIN Diode SP4T

STOCKED

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	<0.1 <0.1	± 10 ± 10	μ A μ A	V _{IH} = +2.7V V _{IL} = +0.5V
INSERTION LOSS		0.43 1.00	1.0 1.5	dB dB	10 - 100 MHz 100 - 1000 MHz
ISOLATION	80 60 50	88 68 58		dB dB dB	10 - 100 MHz 100 - 500 MHz 500 - 1000 MHz
VSWR:		1.11/1 1.13/1	1.3/1 1.5/1		10 - 1000 MHz 10 - 1000 MHz
IMPEDANCE		50		OHMS	
SWITCHING SPEED		1.6	3	μ SEC	50% TTL TO 90% / 10% RF
TRANSITION (RISE/FALL) TIME		0.5		μ SEC	90% / 10% OR 10% / 90% RF
SWITCHING (VIDEO) TRANSIENTS		0.5		V	PEAK VALUE
INTERCEPT POINTS	2ND 3RD	+66 +43		dBm dBm	400 MHz / 575 MHz 200 MHz / 575 MHz
RF POWER:	OPERATE NO DAMAGE	+10 +16 +25	+7 +21 +27	dBm dBm dBm	10 - 20 MHz 20 - 100 MHz 100 - 1000 MHz
OPERATING TEMPERATURE	-55	+25	+125	°C	TA