

FEATURES

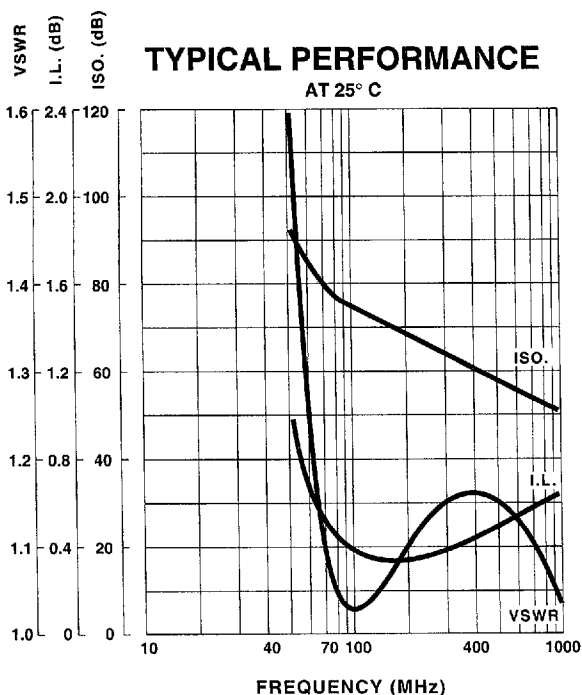
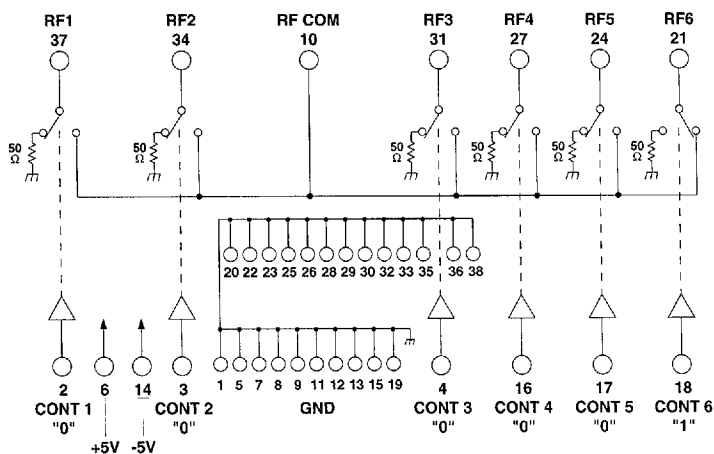
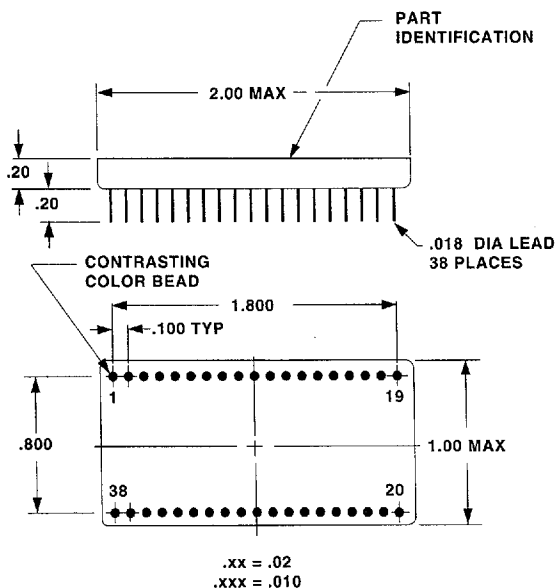
- 100 - 600 MHz
- 0.6 dB Insertion Loss
- Handles +25 dBm
- 250 nSec Switching Speed
- Non-Reflective
- TTL Driver
- 38 Pin DIP



**MODEL NO.
DS0506**

PIN Diode SP6T

SP6T



GUARANTEED PERFORMANCE

PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
OPERATING FREQUENCY	100		600	MHz	
DC CURRENT		25 30	35 45	mA	AT +5 VDC SUPPLY AT -5 VDC SUPPLY
CONTROL TYPE		TTL			6 LINE LOGIC "0" = OFF LOGIC "1" = ON
CONTROL CURRENT:	HIGH LOW		40 -400	μ A	$V_{IH} = +2.7V$ $V_{IL} = +0.5V$
INSERTION LOSS		0.6	1.0	dB	
ISOLATION	50	56		dB	
VSWR		1.2/1	1.50/1		
IMPEDANCE		50		OHMS	
SWITCHING SPEED		0.25	1	μ SEC	50% TTL TO 90% / 10% RF
TRANSITION (RISE/FALL) TIME		0.1		μ SEC	10% / 90% TO 90% / 10% RF
SWITCHING (VIDEO) TRANSIENTS		700		mV	PEAK VALUE
INTERCEPT POINTS	2ND 3RD	+90 +50		dBm	60 MHz / 160 MHz 130 MHz / 160 MHz
RF POWER:	OPERATE NO DAMAGE	+25	+20 +30	dBm	0.1 dB COMPRESSION
OPERATING TEMPERATURE	-55	+25	+125	$^{\circ}$ C	TA