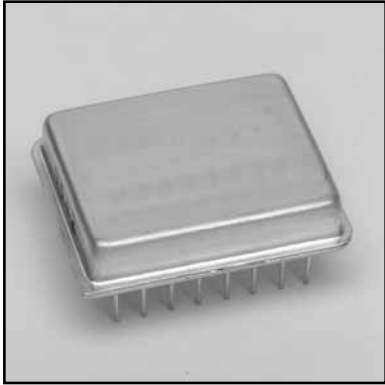




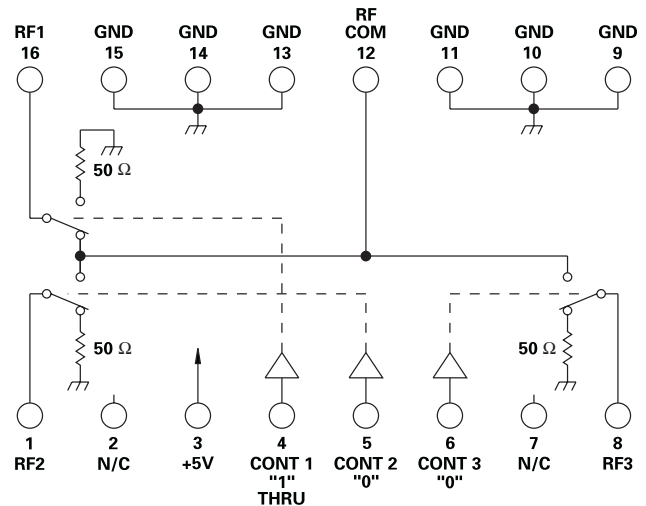
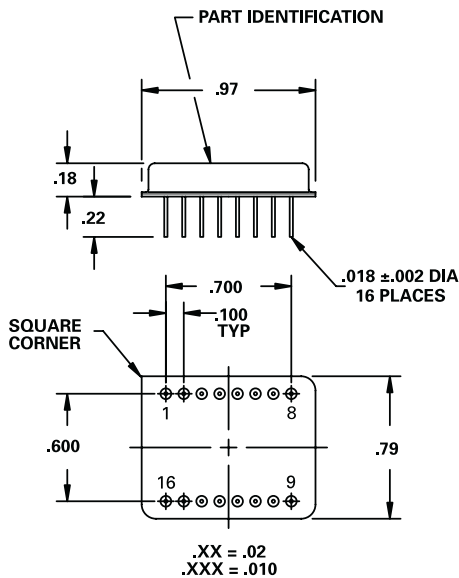
MODEL NUMBER DS0997

GaAs SP3T

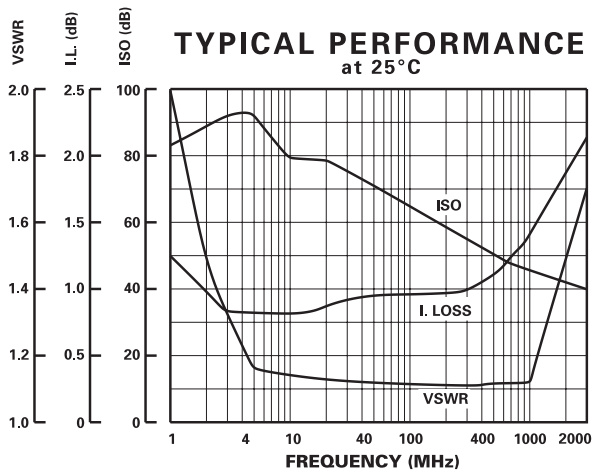
FEATURES

- 5 - 2000 MHz
- 10 nSec Transition Time
- 30 nSec Switching Speed
- Non-Reflective
- TTL Drivers
- 16 Pin DIP

SP3T



N/C=NO INTERNAL CONNECTION



RF POWER OPERATE COMPRESSION POINT (dBm)

Frequency (MHz)	0.1 dB TYP	0.1 dB Max	1.0 dB TYP	1.0 dB Max
5	+11.5	+6	+17.5	+10
20	+14.7	+10	+21.3	+13
50	+16.6	+13	+21.4	+17
500	+17.5	+13	+21.5	+21

GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	5		2000	MHz	
DC Current CDP		0.3 131	1 200	mA pF	At +5 VDC Supply
Control Type		TTL			3 Lines Logic "1" = Thru Logic "0" = Isolation
Control Current	High Low	1.0 1.0	±10 ±10	μ A μ A	V _{IH} = +2.7V V _{IL} = +0.5V
Insertion Loss		1.3 2.1	1.8 2.75	dB dB	5 - 1000 MHz 1000 - 2000 MHz
Isolation	55 40 35	65 49 39		dB dB dB	5 - 100 MHz 100 - 1000 MHz 1000 - 2000 MHz
VSWR	Thru	1.2/1 1.15/1 1.6/1	1.5/1 1.3/1 2.0/1		5 - 10 MHz 10 - 1000 MHz 1000 - 2000 MHz
Impedance		50		OHMS	
Switching Speed		30	50	nSEC	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		10		nSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients		28	35	mV	Peak Value
Intercept Points	2nd 3rd	+62 +48		dBm dBm	150 MHz / 350 MHz 200 MHz / 250 MHz
RF Power	Operate No Damage	+11 +16	+6 +10 +27	dBm dBm dBm	5 - 20 MHz 20 - 2000 MHz
Operating Temperature	-55	+25	+125	°C	TA



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