

SP2T

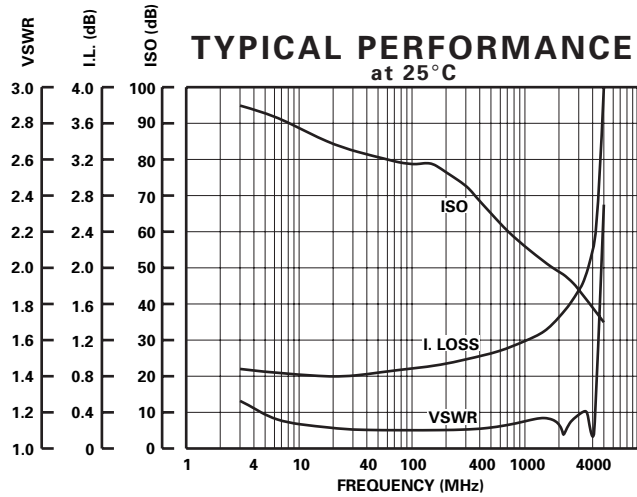
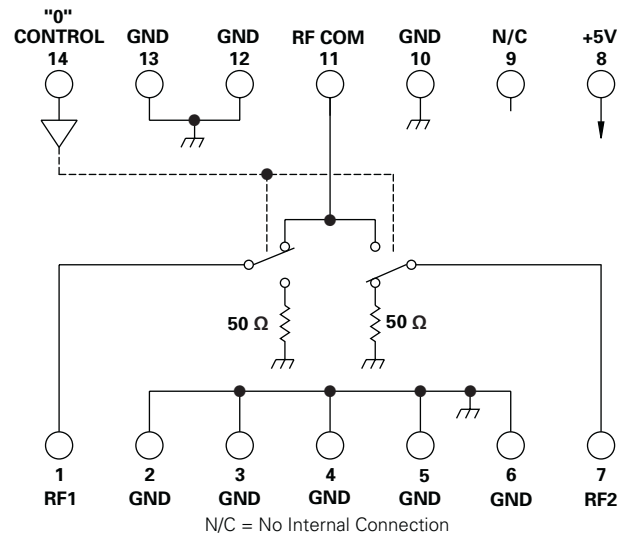
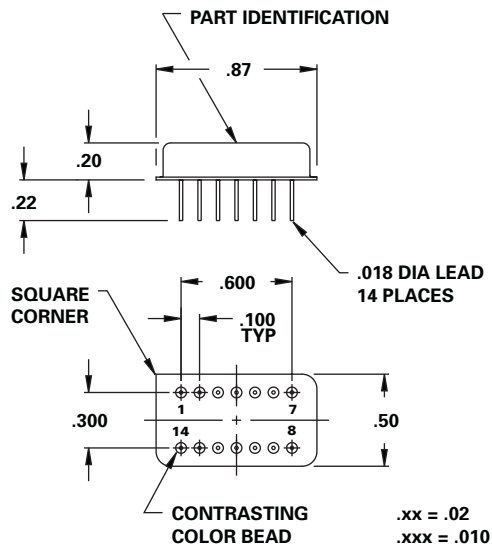
FEATURES

- 5-4000 MHz
- 16 nSec Switching Speed
- 0.2 mA, +5 VDC
- TTL Driver
- Non-Reflective
- See DS0632 For Surface Mount Version



MODEL NO. DS0602

GaAs SP2T



GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	5		4000	MHz	
DC Current		0.23	1	mA	AT +5 VDC Supply
Control Type					1 Line TTL OR +5V CMOS Logic "0" = RF COM to RF1 Logic "1" = RF COM to RF2
Control Current		1	±10	µA	V _{IH} = +2.7V V _{IL} = +0.5V
Insertion Loss		0.9	1.2	dB	5 - 50 MHz
		1.1	1.5	dB	50 - 500 MHz
		1.5	2.0	dB	500 - 2000 MHz
		2.5	3.0	dB	2000 - 4000 MHz
Isolation	70	76		dB	5 - 200 MHz
	60	65		dB	200 - 500 MHz
	50	55		dB	500 - 1000 MHz
	40	48		dB	1000 - 2000 MHz
	30	37		dB	2000 - 4000 MHz
VSWR	Thru	1.2/1	1.3/1		5 - 2000 MHz
	Termination	1.2/1	2.0/1		2000 - 4000 MHz
		1.5/1	2.0/1		5 - 2000 MHz
		1.8/1	2.2/1		2000 - 4000 MHz
Impedance		50		OHMS	
Switching Speed		16	25	nSEC	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		4	15	nSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients		30	200	mV	Peak Value
Intercept Points	2nd	+50	+66	dBm	214 MHz / 127 MHz
	3rd	+30	+40	dBm	107 MHz / 127 MHz
RF Power	Operate	+9	+7	dBm	0.1 dB Comp Below 50 MHz
		+12	+10	dBm	0.1 dB Comp 50 - 300 MHz
		+19	+17	dBm	0.1 dB Comp Above 300 MHz
	No Damage		+27	dBm	
Operating Temperature	-55	+25	+125	°C	TA