

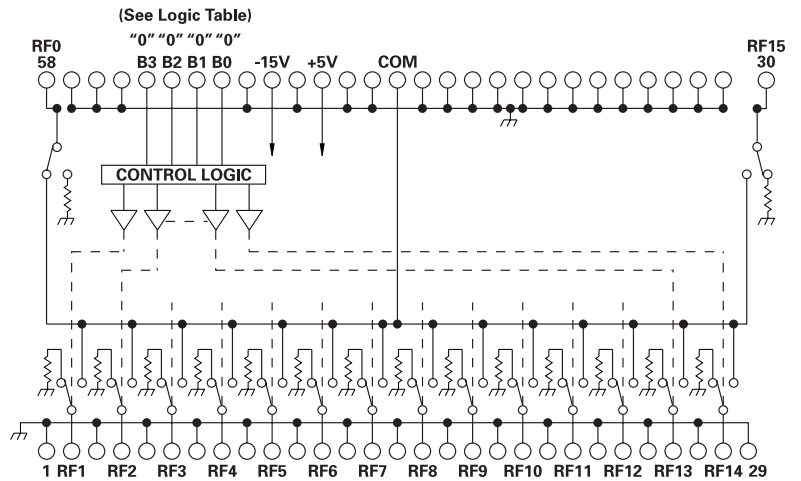
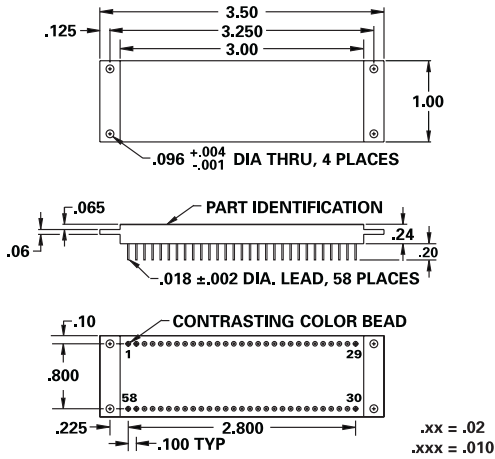


**MODEL NUMBER DS0918** **GaAs SP16T**

**FEATURES**

- DC - 4000 MHz
- 4 line BCD TTL Control
- Non-Reflective
- 58 Pin DIP

**SP16T**



CONTROL TABLE				COM TO:
CTL				RF
B3	B2	B1	B0	RF
0	0	0	0	RF0
0	0	0	1	RF1
0	0	1	0	RF2
0	0	1	1	RF3
0	1	0	0	RF4
0	1	0	1	RF5
0	1	1	0	RF6
0	1	1	1	RF7
1	0	0	0	RF8
1	0	0	1	RF9
1	0	1	0	RF10
1	0	1	1	RF11
1	1	0	0	RF12
1	1	0	1	RF13
1	1	1	0	RF14
1	1	1	1	RF15

**GUARANTEED PERFORMANCE**

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	DC		4	GHz	
DC Current		3	10	mA	At +5 VDC Supply
		11	25	mA	At -15 VDC Supply
Control Type		TTL			4 Line BCD Control
Control Current	High	0	$\pm$ 40	$\mu$ A	V <sub>IH</sub> = +2.7 V
	Low	0	$\pm$ 40	$\mu$ A	V <sub>IL</sub> = +0.5 V
Insertion Loss		3.1	4	dB	DC - 1 GHz
		3.8	5	dB	1 - 2 GHz
		5.6	7	dB	2 - 4 GHz
Isolation	40	48		dB	DC - 1 GHz
	30	39		dB	1 - 2 GHz
	20	32		dB	2 - 4 GHz
VSWR		1.8/1	2/1		
Impedance		50		OHMS	
Switching Speed		170	300	nSEC	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		4		nSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients		44		mV	
Intercept Points	2nd	+49		dBm	70 MHz / 50 MHz
	3rd	+36		dBm	35 MHz / 50 MHz
RF Power	Operate	+13	+10	dBm	0.1 dB Compression 20 MHz
	No Damage		+23	dBm	
Operating Temperature	-55	+25	+85	$^{\circ}$ C	TA

