

## FEATURES

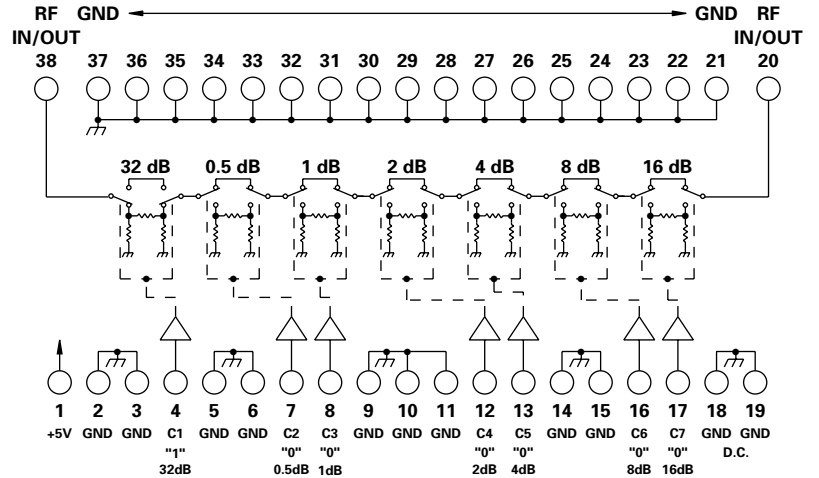
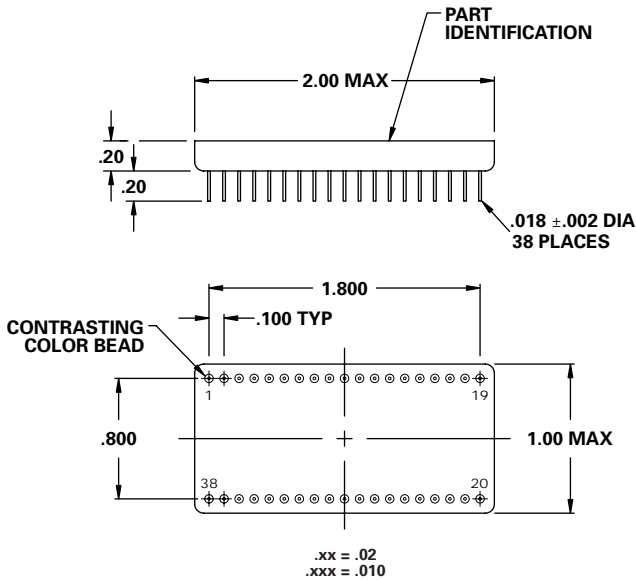
- 30 - 500 MHz
- 50 mA, +5 VDC
- +40 dBm 3rd Order Intercept
- 0.5 dB LSB, 63.5 dB Range
- TTL Control
- See 100C1595 for Connectorized Version
- See DA0795 for Surface Mount Version



MODEL NO.  
DA0295

## PIN Diode 7 Section Attenuator

7 BIT



## GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	30		500	MHz	
DC Current		50	85	mA	At +5 VDC Supply
Control Type		TTL			7 Line Logic "0" = Thru Logic "1" = Attenuation
Control Current	High Low		40 -400	$\mu$ A	$V_{IH} = +2.7$ V $V_{IL} = +0.5$ V
Insertion Loss		4.2	6.0	dB	
Attenuation	LSB Range Accuracy	0	0.5 63.5	dB dB	0.5, 1, 2, 4, 8, 16, 32 0.5 dB Section: $\pm 0.125$ dB 1 - 63.5 dB Sections: $\pm (0.15$ dB +2% of Atten. Setting in dB)
VSWR		1.2/1	1.35/1		
Impedance		50		OHMS	
Switching Speed		5.5	20	$\mu$ Sec	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		1		$\mu$ Sec	90% / 10% or 10% / 90% RF
Switching (Video) Transients		100		mV	
Intercept Points	2nd 3rd	+66 +40		dBm dBm	
RF Power	Operate No Damage	+18 +20	+13 +20	dBm dBm	0.1 dB Compression
Operating Temperature		-55	+25	+125	$^{\circ}$ C TA

