

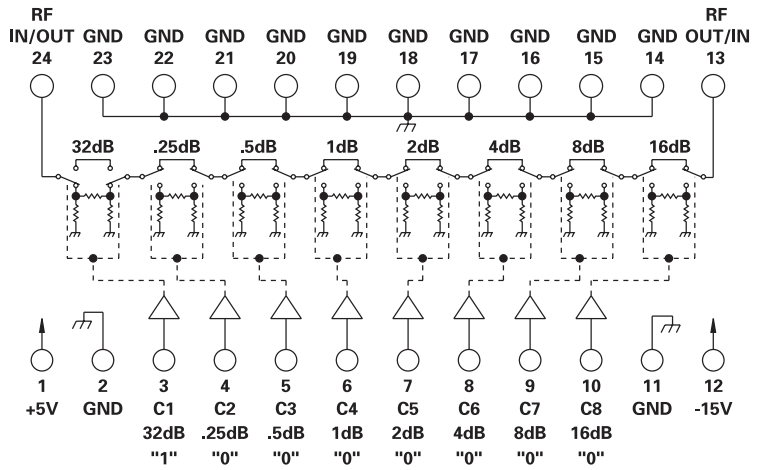
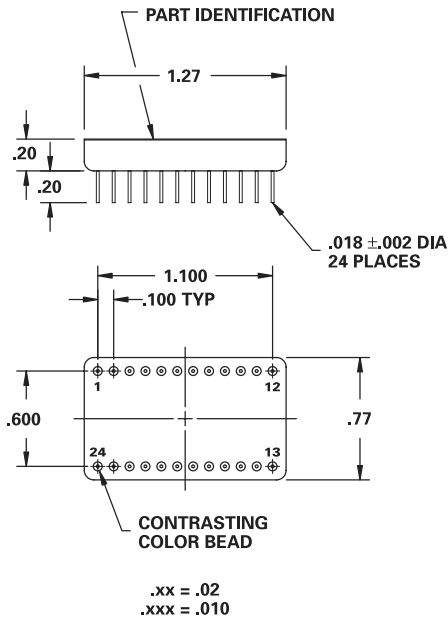
**MODEL NUMBER  
CAT82048**

**Attenuator 8 Section**

**FEATURES**

- 440 - 480 MHz
- 0.25 dB LSB
- Phase Vs. Atten.  $\pm 5$  Degrees
- 100 nSec Switching Speed

**8 BIT**



**GUARANTEED PERFORMANCE**

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	440		480	MHz	
DC Current			200	mA	At +5 VDC Supply
			150	mA	At -15 VDC Supply
Control Type		TTL			8 Line Logic "1" = Attenuation
Control Current	High		$\pm 10$	$\mu$ A	$V_{IH} = +2.7$ V
	Low		$\pm 10$	$\mu$ A	$V_{IL} = +0.5$ V
Insertion Loss		5.2	5.9	dB	
Attenuation	LSB		0.25	dB	
	Range	0	63.75	dB	.25, 0.5, 1, 2, 4, 8, 16, 32 dB
	Accuracy			dB	0.25 dB $\pm 20\%$ 0.5 dB $\pm 10\%$ 1.0 dB $\pm 5\%$ All Other $\pm 3\%$
	Monotonicity				
Phase Vs. Atten		$\pm 2$ $\pm 5$		DEG DEG	Each Bit Total
VSWR		1.2/1	1.5/1		
Impedance		50		OHMS	
Switching Speed		70	100	nSec	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time		8		nSec	10% / 90% or 90% / 10% RF
Switching (Video) Transients		0.63	1.0	mVp-p	External BPF, 5 Section, BW = $460 \pm 3$ MHz, 0.43 mV
Intercept Points	2nd	+55		dBm	
	3rd	+34		dBm	
RF Power	Operate		+20	dBm	0.1 dB Comp. @ 460MHz
	No Damage		+23	dBm	
Operating Temperature	-30	+25	+75	$^{\circ}$ C	TA

