

## FEATURES

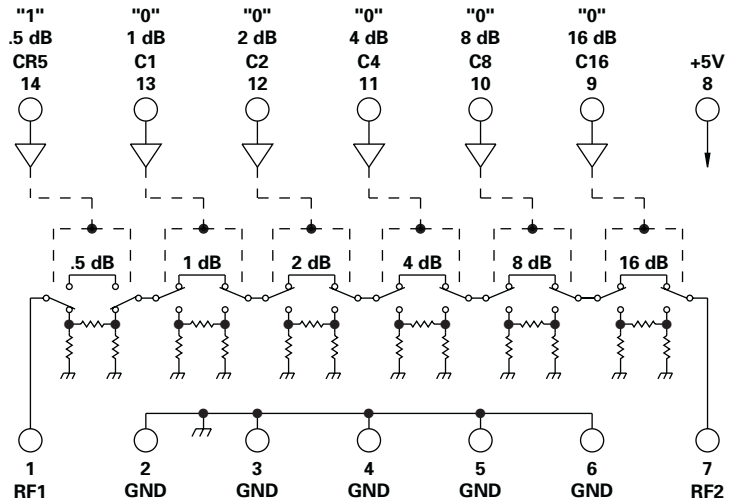
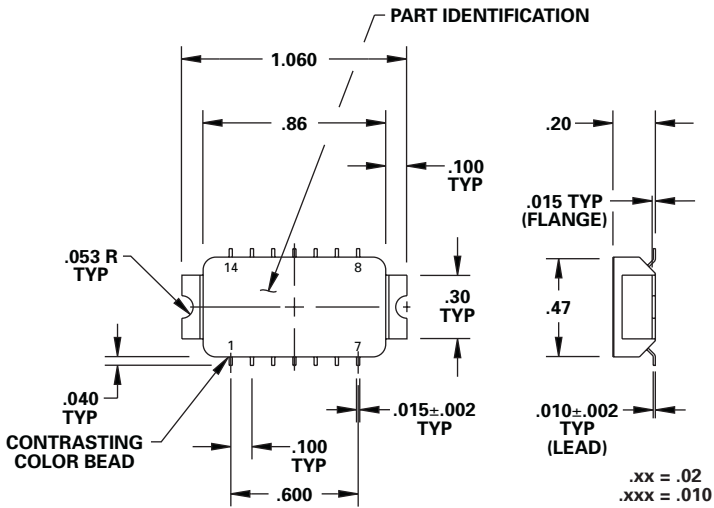
- 400 - 600 MHz
- Space Application
- Hermetic Package
- Radiation Tolerant, 150 K Rad
- Surface Mount

6 BIT



**MODEL NO.  
CAT65280**

**GaAs 6 Section Attenuator**



## GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Rad-Hardness		150		KRAD(Si)	
Operating Frequency	400		600	MHz	
DC Current		0.7	2.0	mA	At +5 VDC, +7 DC Supply
Control Type		CMOS			6 Line Logic "0" = Thru Logic "1" = Attenuation
Control Current	High Low	0.1 0.1	±5 ±5	µA	3 - 5 Volts 0 - 0.5 Volts
Insertion Loss		3.5		dB	
Attenuation	LSB Range Accuracy	0	0.5 31.5	dB dB dB	0.5, 1, 2, 4, 8, 16 ± (0.15 dB + 3% of Atten. Setting in dB) ± (0.35 dB + 3% of Atten. Setting in dB) for 0 dB to 15.5 dB Attenuation ± (0.15 dB + 1.5% of Atten. Setting in dB) ± (0.35 dB + 1.5% of Atten. Setting in dB) for 16 dB to 31.5 dB Attenuation Guaranteed
	Monotonicity				Guaranteed
VSWR		1.26/1	1.6/1		
Impedance		50		OHMS	
Switching Speed		16	30	nSec	50% Control Signal 90% / 10% RF
Transition (Rise/Fall) Time		12		nSec	10% / 90% or 90% / 10% RF
Switching (Video) Transients		84		mV	Peak Value
Intercept Points	2nd 3rd	+53 +33	+68 +45	dBm dBm	
RF Power	Operate No Damage		+13 +23	dBm dBm	1 dB Compression
Operating Temperature		-55	+25	+85	°C TA
Non-Operating Temperature		-34	+25	+125	°C TA

