

## FEATURES

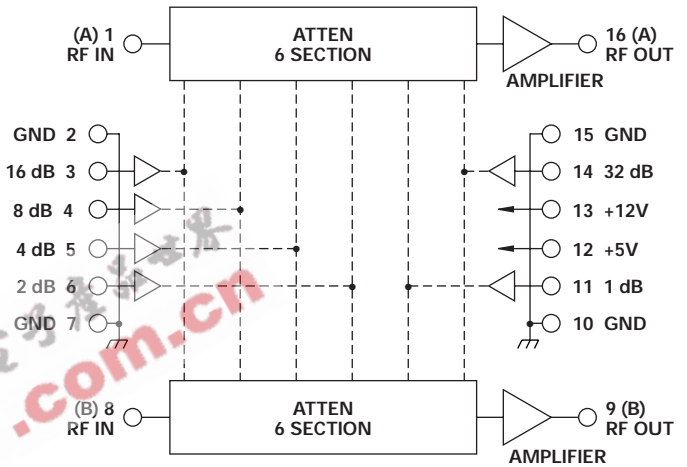
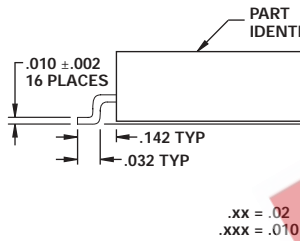
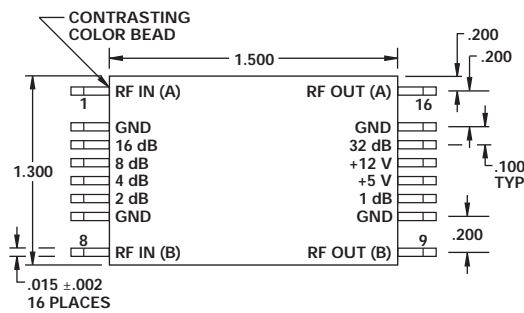
- Total Integration of GaAs MMIC Attenuators, Silicon MMIC Amplifiers, and TTL Drivers
- Ultra Small 1.3 x 1.5 Surface Mount Package
- Phase and Amplitude Balance Channel to Channel

HDI



MODEL NO.  
DA0900

Dual Attenuator / Amplifier



## GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions	
Operating Frequency	20		300	MHz		
DC Current		3	10	mA	At +5 VDC Supply	
		34	50	mA	At +12 VDC Supply	
Control Type		TTL			6 Line Logic "0" = Thru Logic "1" = Attenuation	
Control Current	High	0	±40	µA	V <sub>IH</sub> = +2.7V	
	Low	0	±40	µA	V <sub>IL</sub> = +0.5V	
Insertion Gain	14	16	20	dB		
Noise Figure		7	10	dB		
Isolation	Channel to Channel	60	66	dB	20 - 100 MHz	
		40	54	dB	100 - 300 MHz	
Phase Vs. Attenuation		±6	±10	DEG	Channel to Channel	
	Balance	±2	±5	DEG		
Attenuation	LSB		1	dB	1, 2, 4, 8, 16, 32 ±(0.25 dB ±2% of Atten. Setting in dB)	
	Range	0		dB		
	Accuracy		63	dB		
	Balance		0.2	±0.5	dB	Channel to Channel
VSWR		1.2/1	1.4/1			
Impedance		50		OHMS		
Switching Speed		36	50	nSec	50% TTL to 90% / 10% RF	
Transition (Rise/Fall) Time		20		nSec	90% / 10% or 10% / 90% RF	
RF Power	Operate	+5	+0	dBm	0.1 dB Compression	
	No Damage		+20	dBm		
Operating Temperature	-55	+25	+85	°C	TA	

