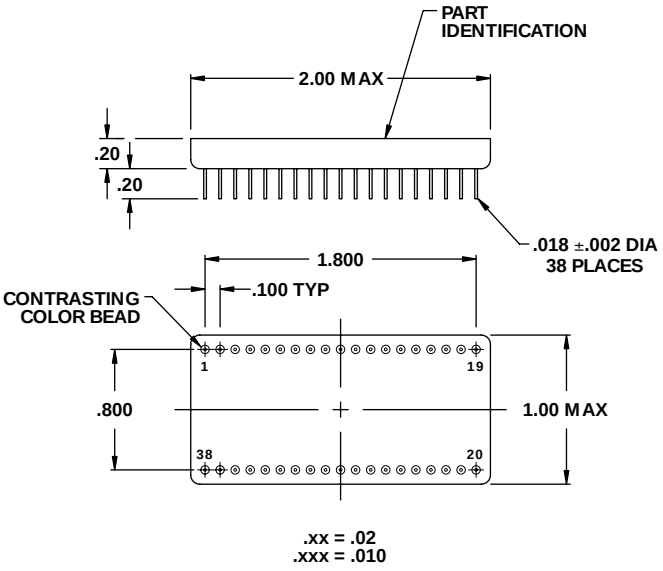
HDI

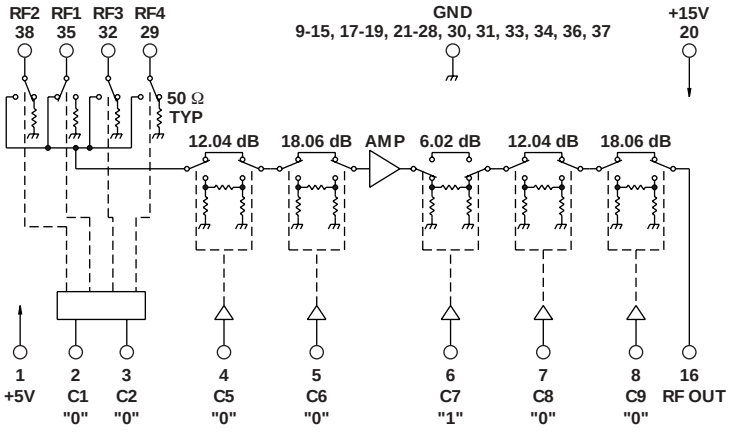
FEATURES

- 9 - 10 MHz
- +30 dBm 3rd Order Intercept Point
- 16.5 dB Gain
- +13 dBm 0.1 dBm Compression in Thru State
- Integrated GaAs MMIC Switches, Attenuators, Silicon Transistor Amplifier, and TTL Drivers

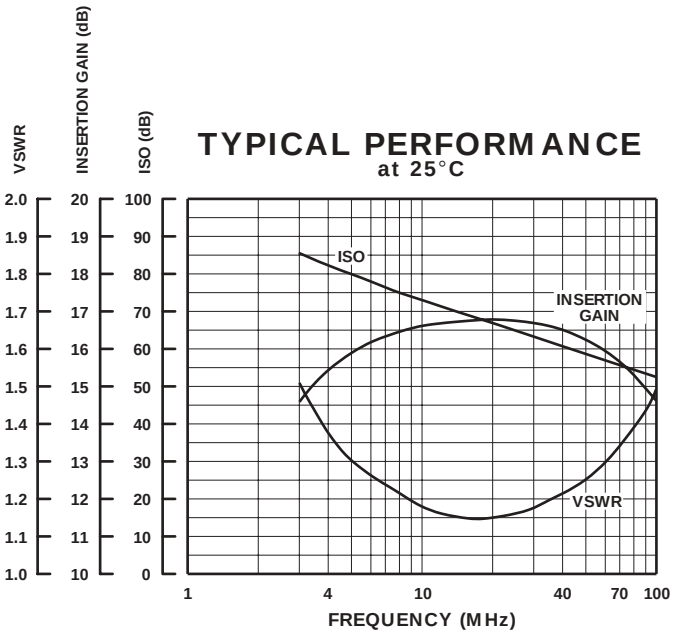
MODEL NO. CHD01940

Switch-Attenuator Amplifier HDMIC





TYPICAL PERFORMANCE at 25°C



GUARANTEED PERFORMANCE

Parameter		Min	Typ	Max	Units	Conditions
Operating Frequency		9		10	MHz	
DC Current			12	15	mA	At +5 VDC Supply
			51	60	mA	At +15 VDC Supply
Control Type			TTL			
Control Current	*High*		±1	±20	µA	VIH = +2.7V
	Low		±1	±20	µA	VIL = +0.5V
Insertion Loss (Gain)			16.5		dB	
Attenuation:	*Steps*				dB	6.02, 12.04, 12.04, 18.06, 18.06
	Range	0		66.22	dB	
	Accuracy					See Table
	Vs Temp			±0.2	dB	Value < 33 dB
				±0.5	dB	Value > 33 dB
	Vs Phase			±10	dB	Between Any Two Attenuation State
VSWR	*Thru*		1.2/1	1.5/1		
	Termination		1.5/1	2.0/1		
Impedance			50		OHMS	
Switching Speed			30	100	nSec	50% TTL to 10% / 90% RF
Transition (Rise/Fall) Time			12		nSec	10% / 90% or 90% / 10% RF
Switching (Video) Transients			130	350	mV	Single Change of Input
			230	600	mV	Any Combination of Change
Intercept Points	*2nd*		+51		dBm	
	3rd	+26	+30		dBm	C5 - C9 = 0
RF Power	*Operate*		+18	+12	dBm	0.1 dB Comp. C5 - C9 = "1"
	Operate			-1	dBm	1.0 dB Comp. C5 - C9 = "0" Any RF Input
	No Damage			+20	dBm	
Isolation		60	73		dB	
Operating Temperature		0	+25	+70	°C	TA