

## CATV Drop Amplifier

CT-008SM



### INTRODUCTION:

Splitter Bypass, MoCA Ready

Unity Forward and Reverse Gain  
42-54 MHz, 8 RF Output + 1 Home Phone

ILLUSTRATION ON NEXT PAGE →

### SPECIFICATIONS:

#### Parameters

		Value	Unit	Note
<b>Forward Path 54-1002 MHz</b>				
Gain		0 to 3	dB	
Gain Tolerance		0.5	±dB	
Flatness		1	±dB	
Return Loss	powered	18	dB min	all ports
	unpowered	18	dB min	fwd in + passive port
Max.Input Level		14	dBmV	
Insertion Loss		3.5+/-0.5	dB	passive port
	unpowered	30	dB	active ports
CNR(dBc)		62 / 66	dBc	with 10 / 14dBmV inputs
CSO(dBc)		-62	dBc	note 1
CTB(dBc)		-75	dBc	
Cross Modulation		-75	dBc	
Hum Modulation		-75	dBc	
Group Delay	ch2/ch3/>ch4	20 / 7 / 5	nsec	3.58MHz span
Noise Figure		3.8	dB	NF of the IC
Shielding Efficiency		-120	dB	5-1002MHz
<b>Return Path 5-42 MHz</b>				
Gain		0 to 3	dB	
Flatness		0.5	±dB	
Group Delay	5-10 & 36-42MHz	20	nsec	1.5nsec span
	10-36MHz	5	nsec	
Return Loss	powered	18	dB min	all ports
	unpowered	18	dB min	fwd in + passive port
Insertion Loss		3.5+/-0.5	dB	passive port
<b>General Specifications</b>				
Isolation	Output - Output	24 min	dB	HFC band
		42 max	dB	MoCA band (1125-1525MHz)
	Downstream	26 min	dB	
	Upstream	36 min	dB	
D.C.Operating Voltage		+12 to +15	V	
D.C.Operating Current		300	mA	
A.C.Power Consumption		4.5	VA	
Power Pack Short Circuit Protection		yes		
RF Port Surge Withstand		6kv,200A ring wave		IEEE C62.41-1991
Operating Temperature		-40 to 60	°C	
Operating Case Temp		30	°C	ambient 20
Dimensions	single carton	156 x 90x 99	mm	includes power pack
Weight		0.605	kg	
Note (1):		Input levels at +14 dBmV/CH (79 NTSC), plus digital after 550MHz at 6 dB set-back		

