



CDA

Series

1GHz CATV Drop Unidirectional and Bi-directional Amplifiers

TRU SPEC™
A PICO MACOM REGISTERED TRADEMARK



- Forward frequency bandwidth 54 to 1000 MHz allows use in large bandwidth systems
- Passive return path available in both 10 dB and 20 dB gain models
- 10 dB and 20 dB gain versions for optimum system operation
- Low noise figure provides clean signal distribution
- Designed for CATV apartment distribution systems
- External UL approved power supply for international or North American use
- Higher than 130 dB RFI shielding provided through solder-backed diecast housing

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The **CDA10** and **CDA20** are low-noise linear distribution amplifiers, providing a minimum 10 dB gain with extremely low distortion. The wide bandwidth allows the user a single amplifier for all distribution frequency applications: VHF, Mid-band, Super-band, Hyper-band, Ultra-band and UHF. The supplied UL approved power supply allows use in all international power systems. All four versions may be powered with either 12 VDC line power or the external adaptor. The **CDA10PR** and **CDA20PR** are bi-directional versions of the **CDA10** and **CDA20**, providing a passive return path from 5-40 MHz.

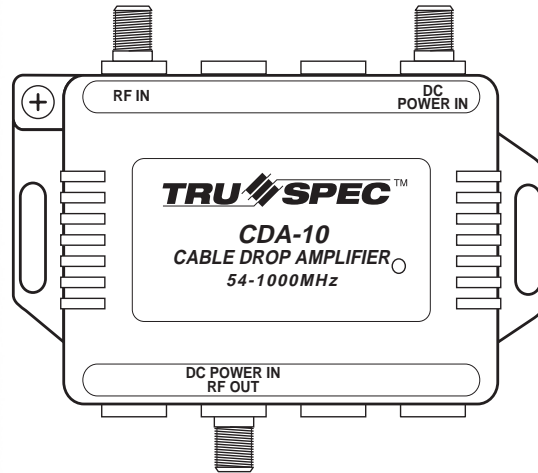
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Toll Free: 800-423-2594
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Specifications

Bandwidth:	54-1000 MHz	Composite Triple Beat:	-70 dBc
Return Bandwidth:	4-40 MHz	Composite Second Order:	-70 dBc
Forward Gain (CDA10, 10PR):	10 ±1 dB min.	Channel Loading:	158
(CDA20, 20PR):	20 ±1 dB min.	Max Output (158 Channels)	24 dBmV
Reverse Path Insertion Loss:	-2.5 dB	RFI Shielding:	130 dB
Noise Figure (CDA10, 10PR):	5.5 dB max.	Power Adaptor Supply Voltage:	12 VDC, 200 mA
(CDA20, 20PR):	4.5 dB max.	Operating Temperature:	-10° to +50° C
Input and Output Return Loss:	15 dB	Dimensions (Case):	3.4"(L) x 2.4"(D) x 0.9"(H)
1 dB Compression Point		Weight:	0.8 lbs.
(CDA10, 10PR):	21 dBm		
(CDA20, 20PR):	10 dBm		
Cross Modulation:	-75 dBc		

Channel Loading Specifications

# Channels	CDA10 CDA10PR		CDA20 CDA20PR	
	Max. Input per Channel	Max. Output	Max. Input per Channel	Max. Output
7	46 dBmV	56 dBmV	36 dBmV	56 dBmV
12	44 dBmV	48 dBmV	30 dBmV	50 dBmV
36	34 dBmV	44 dBmV	20 dBmV	40 dBmV
48	30 dBmV	40 dBmV	14 dBmV	34 dBmV
78	25 dBmV	35 dBmV	12 dBmV	32 dBmV
108	20 dBmV	30 dBmV	10 dBmV	30 dBmV
125	16 dBmV	28 dBmV	8 dBmV	28 dBmV
158	14 dBmV	24 dBmV	4 dBmV	24 dBmV

Ordering Information

CDA-10	10 dB	No Return Path	CDA-20	20 dB	No Return Path
CDA-10PR	10 dB	Passive Return Path	CDA-20PR	20 dB	Passive Return Path

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