DESCRIPTION

SPECIFICATIONS

Description

The **PDA™30** series amplifiers are low noise linear distribution amplifiers providing high power outputs at extremely low distortion. The amplifier is available in three model configurations to fit any distribution requirement; the **PDA™30/PDA™30NR**, no return path, the **PDA™30PR** with passive return path and the **PDA™30AR**, with 19dB gain active return path. The wide bandwidth allows the user a single amplifier for all distribution frequency applications.

Distortion Parameters: All Models

No. of Inputs (CW Carrier)	Input Level (typ)	Output Level (typ)	CTB(dB)	CSO(dB)	X'Mod(dB)
77	+5dBmV	+35dBmV	-60	-60	-60
77	+10dBmV	+40dBmV	-60	-60	-60
77	+15dBmV	+45dBmV	-55	-55	-55
55	+20dBmV	+50dBmV	-50	-50	-50

Specifications subject to change without notice.

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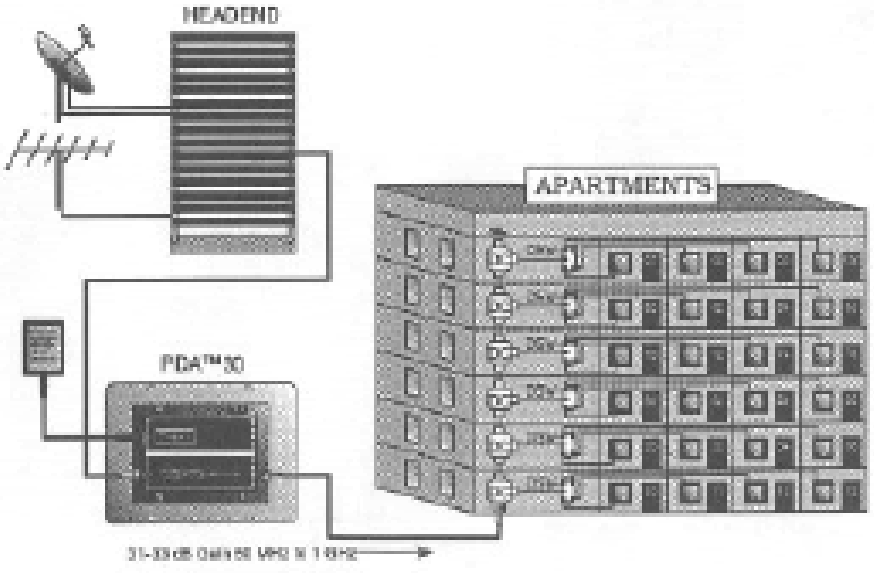
SPECIFICATIONS

PDA™30 NO-RETURN PATH AMP

Specifications

Bandwidth:	50 MHz to 1 GHz
Gain:	
50 MHz to 750 MHz	31 dB, ±1 dB
750 MHz to 1 GHz	33 dB, ±2 dB
Noise Figure:	<6.5 dB
Hum Modulation @ Max Gain:	-60dB
Return Loss:	
50 MHz to 500 MHz	15 dB
500 MHz to 1 GHz	10 dB
RFI Shielding:	-100 dB
Power Requirements:	120 Vac, 60 Hz Domestic 220 Vac, 50 Hz International
Operating Temperature:	-10° to +50°c
Connectors:	
RF	"F" type
Power	2.1mm pin
Dimensions:	
Amplifier	5.7"L x 4.25"W x 2.25"H
Mounting Plate:	7.5"L x 7.5"W x 0.06"H

Application:



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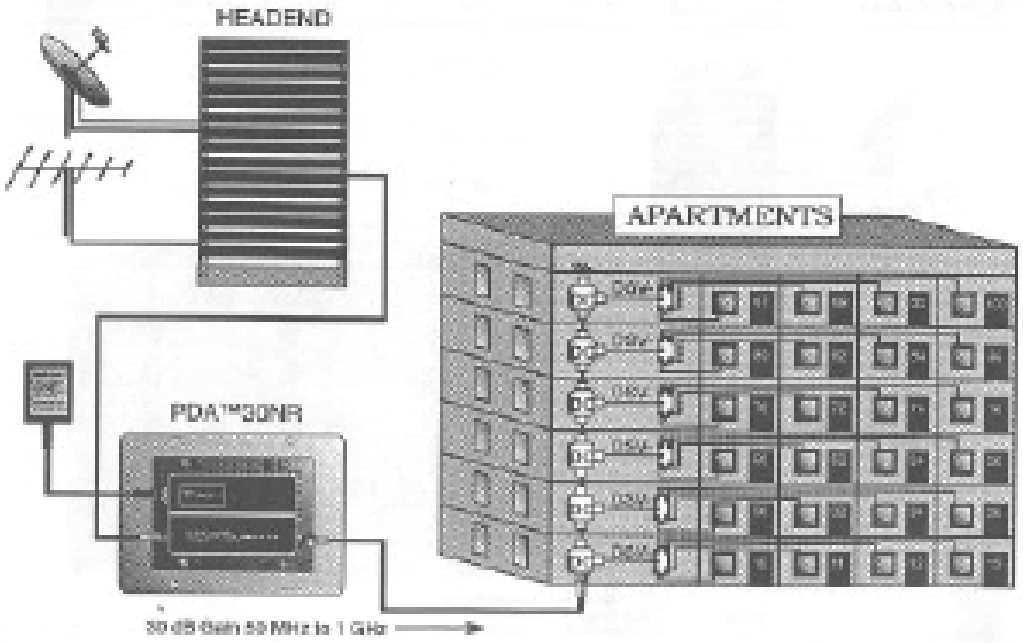
SPECIFICATIONS

PDA™30NR NO-RETURN PATH AMP

Specifications:

Bandwidth:	50 MHz to 1 GHz
Gain:	
50 to 550 MHz	30 dB, ±1 dB
550 MHz to 1 GHz	31 dB, ±2 dB
Noise Figure:	<6.5 dB
Hum Modulation @ Max Gain:	-60 dB
Return Loss:	
50 to 500 MHz	15 dB
500 MHz ro 1 GHz	10 dB
RFI Shielding:	-100 dB
Power Requirements:	120 Vac, 60 Hz Domestic 220 Vac, 50 Hz International
Operating Temperature:	-10° to +50°c
Connectors:	
RF	"F" type
Power	2.1mm pin
Dimensions:	
Amplifier	5.7"L x 4.25"W x 2.25"H
Mounting Plate:	7.5"L x 7.5"W x 0.06"H

Application:



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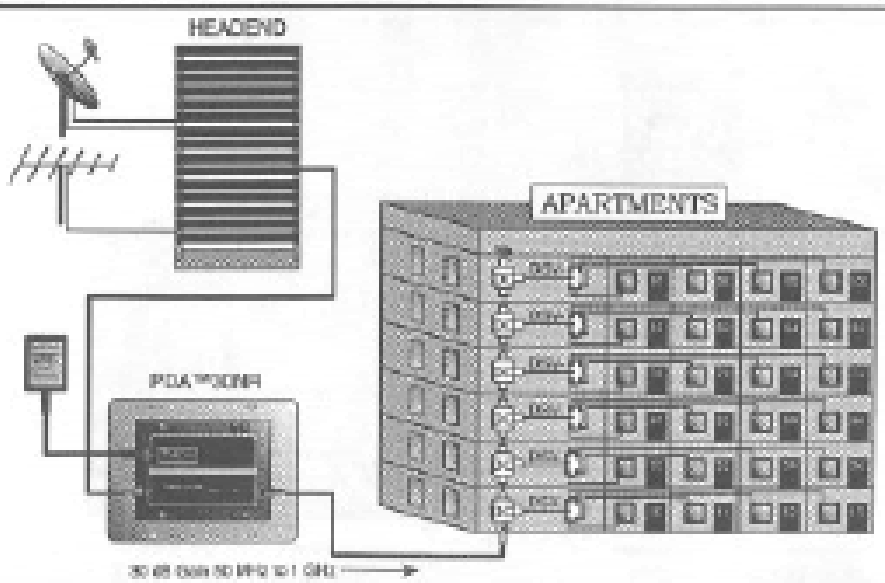
SPECIFICATIONS

PDA™30PR PASSIVE RETURN PATH AMP

Specifications:

Bandwidth:	50 MHz to 1 GHz
Return Bandwidth:	5 to 40 MHz
Forward Gain:	
50 to 550 MHz	30 dB, ±1 dB
550 MHz to 1 GHz	31 dB, ±2 dB
Reverse Gain: 5 to 40 MHz	Unity Gain
Noise Figure:	<6.5 dB
Hum Modulation @ Max Gain:	-60 dB
Return Loss:	
50 to 500 MHz	15 dB
500 MHz to 1 GHz	10 dB
RFI Shielding:	-100 dB
Power Requirements:	120 Vac, 60Hz Domestic 220 Vac, 50 Hz International
Operating Temperature:	-10° to +50°c
Connectors:	
RF	'F' type
Power	2.1mm pin
Dimensions:	
Amplifier	5.7'L x 4.25"W x 2.25'H
Mounting Plate	7.5'L x 7.5"W x 0.06'H

Application:



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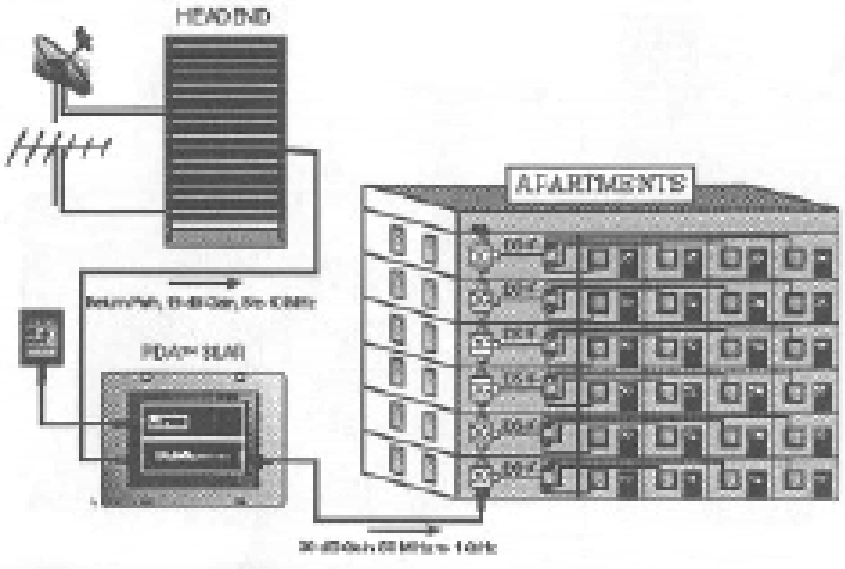
SPECIFICATIONS

PDA™30AR ACTIVE RETURN PATH AMP

Specifications:

Bandwidth:	50 MHz to 1 GHz
Return Bandwidth:	5 to 40 MHz
Forward Gain:	
50 to 550 MHz	30 dB, ±1 dB
550 MHz to 1 GHz	31 dB, ±2 dB
Reverse Gain: 5 to 40 MHz	19 dB ± 1 dB
Noise Figure:	<6.5 dB
Hum Modulation @ Max Gain: -60 dB	
Return Loss:	
50 to 500 MHz	15 dB
500 MHz to 1 GHz	10 dB
RFI Shielding:	-100 dB
Power Requirements:	120 Vac, 60 Hz Domestic 220 Vac, 50 Hz International
Operating Temperature:	-10° to +50 °c
Connectors:	
RF	"F" type
Power	2.1mm pin
Dimensions:	
Amplifier	5.7"L x 4.25"W x 2.25"H
Mounting Plate	7.5"L x 7.5"W x 0.06"H

Application:



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BACKPLATE MOUNTING

Installation note:

While the **PDA™30** operates at a running temperature below that of many of the higher priced amplifiers, ***Pico Macom*** recommends that the amplifier be installed with the backplate furnished with the amplifier, especially if the amplifier is to be mounted to any suface other than metal.