



PIDA

Series

Broadband Bi-directional Push-Pull Distribution Amplifiers

- Available in three forward bandwidth versions: 50-550MHz (CATV 2-78, 95-99), 50-750MHz (CATV 2-117), and 50-1000MHz (CATV 2-158)
- All versions feature reverse-path channel bandwidth 5-36MHz (Channels T7-T11)
- Adjustable 30dB forward-path gain and slope controls for optimal carrier-to-noise ratio, superior picture quality and easy system balancing
- Reverse-path gain passive or active mode selection via internal jumpers for maximum flexibility
- Active reverse-path adjustable 20dB gain control enables balancing of upstream signal
- ± 0.75 dB flatness across band provides low distortion and excellent frequency response
- Employs dual state-of-the-art push-pull hybrid technology for very low distortion, high input and output capability
- Optional plug-in equalizers and attenuators enable unity gain and slope system balancing for minimum distortion
- Optionally available in power-doubling version.
- -30dB input and output test points enable simplified setup and performance monitoring without service interruption
- Shielded enclosure provides over 100dB RFI shielding performance reducing leakage and ingress thereby improving picture quality
- Built-in lightning and line-voltage surge protection protects the unit from damage
- Extruded aluminum heat-sink maximizes heat dissipation for improved reliability and corrosion resistance
- Available in PAL configuration for international use
- External UL approved power supply



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The Pico Macom PIDA series two-way broadband distribution amplifiers are high quality dual push-pull amplifiers producing forward and reverse signals with extremely low distortion and high output levels. These amplifiers are designed for bi-directional cable distribution systems used in institutional and MDU environments, which employ reverse path signals such as cable modems, remote status monitoring, and remote TV origination. The PIDA also makes an excellent headend launch amplifier and is frequently used in conjunction with Pico Macom's passive headend combiners (PHC12G or PHC24G) to overcome losses associated with signal combining in broadband CATV systems. Furthermore, the PIDA can be used in cable systems whose input source is a franchise cable drop or the output of a SMATV headend. In such applications, the PIDA would be used with Pico Macom's CEF channel elimination filter for "mix-and-match" channel selection or for local insertion. The PIDA enclosure is made of high-grade aluminum to ensure reliable heat dissipation and corrosion resistance. Pico Macom backs up this product with its industry leading 5-year limited warranty.

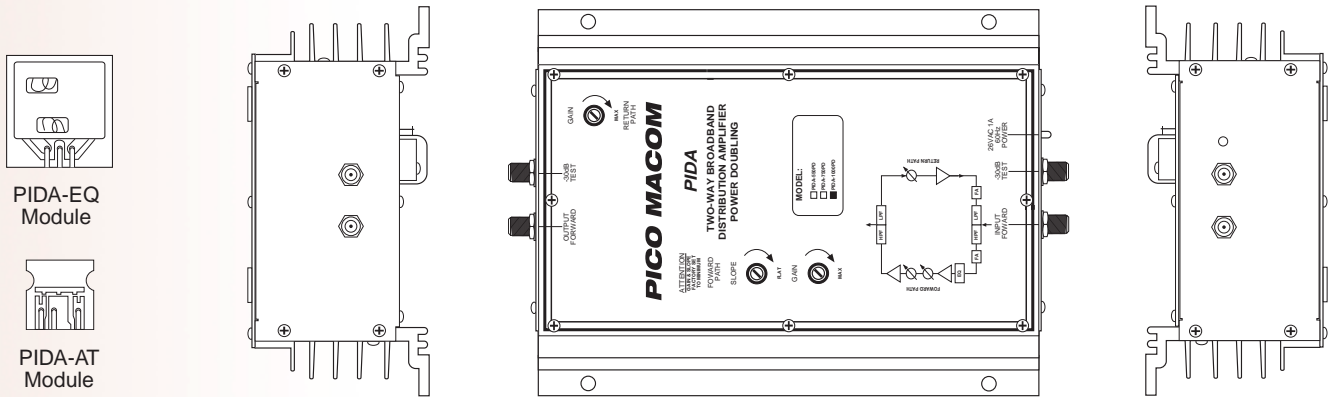
Order From:



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Specifications

	Forward Path	Return Path
Frequency Range: PIDA-1000	50-1000 MHz	5-36 MHz
PIDA-750	50-750 MHz	5-36 MHz
PIDA-550	50-550 MHz	5-36 MHz
Channel Loading:	110 Channels	
Flatness:	±0.75 dB	±0.5 ref to 1 dB tilt
Gain:	30 dB	20 dB
Noise Figure: *	8.5 dB	6 dB
Output Level:	+40 dBmV	+42 dBmV
Test Port Level:	-30 ±2 dB	_____
Gain Control Range:	10 dB	18 dB
Slope Control Range:	8 dB	_____
Composite Triple Beat-CTB: **	-53 dB	-60 dB
Composite Second Order-CSO: **	-56 dB	-60 dB
Cross Modulation-XMOD: **	-54 dB	-60 dB
Hum Modulation:	-70 dB	-65 dB
Impedance - All Ports:	75 ohms	75 ohms
Return Loss - Input/Output:	16 dB	16 dB
Power Requirements:	26 VAC 1000 mA	_____
Operating Temperature:	-20° to +60° C	_____
Hybrid Type:	Push-Pull	_____
Dimensions:	11"(L) x 3 1/4"(D) x 7"(H)	_____
Weight:	6.2 lbs.	_____

* Measured at full gain with 0 dB slope
 ** At specified channel loading at rated output capacity

Channel Loading

	Channels	Max Input Level	Max Output Level
PIDA-550	7	44 dBmV	66 dBmV
	12	41 dBmV	63 dBmV
	36	32 dBmV	52 dBmV
	54	25 dBmV	50 dBmV
	78	20 dBmV	45 dBmV
PIDA-750	7	44 dBmV	66 dBmV
	12	41 dBmV	63 dBmV
	36	32 dBmV	54 dBmV
	54	23 dBmV	45 dBmV
	78	20 dBmV	45 dBmV
	108	15 dBmV	43 dBmV
PIDA-1000	7	44 dBmV	66 dBmV
	12	41 dBmV	63 dBmV
	36	32 dBmV	52 dBmV
	54	25 dBmV	50 dBmV
	78	20 dBmV	45 dBmV
	108	15 dBmV	43 dBmV
	125	12 dBmV	36 dBmV
	158	8 dBmV	34 dBmV

Ordering Information

- PIDA-550** 550 MHz Amplifier
- PIDA-750** 750 MHz Amplifier
- PIDA-1000** 1000 MHz Amplifier

PIDA-AT- Atten Value 6, 9, 12, 18dB Attenuator

PIDA-EQ- Equ Value 6, 9, 12, 18dB Equalizer

All Models shipped in reverse active mode