



CA30/1000

1GHz Broadband Push-Pull Distribution Amplifier

TRU/SPEC™
A PICO MACOM REGISTERED TRADEMARK



- **Broadband 54-1000MHz frequency range (Channels CATV 2-158)**
- **30dB gain for optimal carrier-to-noise ratio and superior picture quality**
- **± 0.5dB flatness across band provides low distortion and excellent frequency response**
- **Employs state-of-the art hybrid push-pull technology for distortion-free audio-video quality**
- **Adjustable slope and gain controls for easy system balancing**
- **Easy-access controls and low-loss (-20dB) test point enable simplified setup and performance monitoring**
- **Shielded enclosure provides over 95dB RFI shielding performance reducing leakage and ingress**
- **Built-in lightning and line voltage surge protection protects the unit from damage**
- **Black anodized extruded aluminum heat-sink maximizes heat dissipation for improved reliability and corrosion resistance**
- **Also available in a rack mount version as CA30RK-1000 Headend Amplifier**



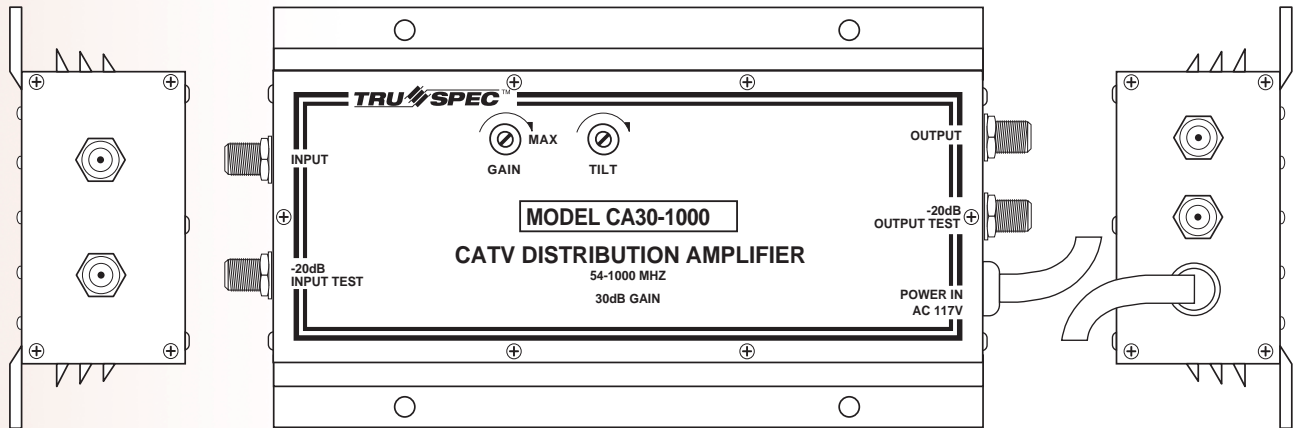
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The Pico Macom CA30/1000 is a high quality push-pull wall-mounted distribution amplifier producing signals with extremely low-noise and harmonic distortion. The amplifier is capable of broadband 158-channel operation over the 54-1000MHz range. This amplifier makes an excellent distribution system amplifier for heavily loaded MDU and broadband CATV and SMATV systems. Because of its extremely low-noise figure and low distortion, the CA30/1000 is ideally suited for use in larger networks where amplifier cascading is required. In expanding bi-directional broadband systems the CA30/1000 can be used in conjunction with Tru-Spec Sub CATV diplexers to split forward and reverse paths. Alternately Pico Macom's PIDA series bi-directional amplifiers may be used.

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Specifications

Bandwidth:	54-1000 MHz	Cross Modulation:	-62 dB (129 channels @ 13 dBmV input level)
Gain:	30 dB	Return Loss In:	>20 dB to 800 MHz
Gain Adjust Range:	12 dB	Return Loss Out:	>12 dB to 800-1000 MHz
Slope Adjust Range:	9 dB	Test Points:	-20 dB
Flatness:	± 0.5 dB (54-1000 MHz)	Power Requirements:	115 VAC, 60 Hz, 4 W
Max. Output:*	45 dB (54 channels -57 dB cross modulation)	Operating Temperature:	-10° to +50° C
Noise Figure:	7.5 dB	Dimensions:	8"(L) x 2 ³ / ₄ "(D) x 4 ¹ / ₂ "(H)
Second Order Beats:	-60 dB (129 channels @ 13 dBmV input level)	Weight:	2.5 lbs.
Composite Triple Beat:	-58 dB (129 channels @ 13 dBmV input level)		

Channel Loading Specifications

Total # of Channels	Max. Input Level	Max. Output Level @ Max Slope
7	44 dBmV	66 dBmV
12	41 dBmV	63 dBmV
36	32 dBmV	54 dBmV
54	23 dBmV	45 dBmV
78	18 dBmV	40 dBmV
108	14 dBmV	36 dBmV
125	11 dBmV	32 dBmV
158	8 dBmV	30 dBmV

Ordering Information

CA-30/1000

Specifications Subject to Change

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