

# CA-30/1000

## 1-GHz Broadband Push-Pull Distribution Amplifier



### Description

The Pico Macom CA-30/1000 is a high-quality push-pull, wall-mounted distribution amplifier that produces signals with extremely low-noise and harmonic distortion. The amplifier is capable of broadband 158-channel operation over the 54-MHz to 1000-MHz 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 CA-30/1000 is ideally suited for use in larger networks where amplifier cascading is required. In expanding bi-directional broadband systems, the CA-30/1000 can be used in conjunction with Tru-Spec Sub CATV duplexers to split forward and reverse paths. Alternately, Pico Macom's PIDA series of bi-directional amplifiers may be used.

### Features

- 30 dB gain for optimal carrier-to-noise ratio and superior picture quality
- Employs state-of-the art hybrid push-pull technology for distortion-free audio and video quality
- Adjustable slope and gain controls for easy system balancing
- Easy-access controls and low-loss (- 20 dB) test point enable simplified setup and performance monitoring
- Shielded enclosure provides over 95 dB of RFI shielding performance, reducing leakage and ingress
- Built-in lightning and line voltage surge protection protects the unit from damage

### Specification

Bandwidth	54 MHz to 1000 MHz
Gain (FWD)	30 dB
Max. Output (158 ch.)	40 dBmV
Flatness	0.5 dB
Noise Figure (FWD)	5 dB
Composite Second Order (FWD)	70 dB
Composite Triple Beat (FWD)	61 dB
Input Test Point Loss	20 dB
Power Input	DC 24 V 1 A
Power Required	4 W
Dimensions	8" (L) x 2.75" (D) x 4.5" (H)
Weight	2.3 lbs.

Total # of Channels	Input Level (dBmV)	Output Level (dBmV)
12	23	53
24	20	50
36	19	49
48	17	47
72	16	46
96	14	44
144	13	43
158	12	42

### Ordering Information

**CA-30/1000**      1-GHz Broadband Push-Pull Distribution Amplifier