



CA30/550

550MHz Push-Pull Distribution Amplifier

TRU SPEC™
A PICO MACOM REGISTERED TRADEMARK



- **Broadband 54-550MHz frequency range (Channels CATV 2-78, 95-99)**
- **Available in either 30dB or 45dB gain configurations 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-550 (30dB) and CA45RK-550 (45dB) Headend Amplifiers**



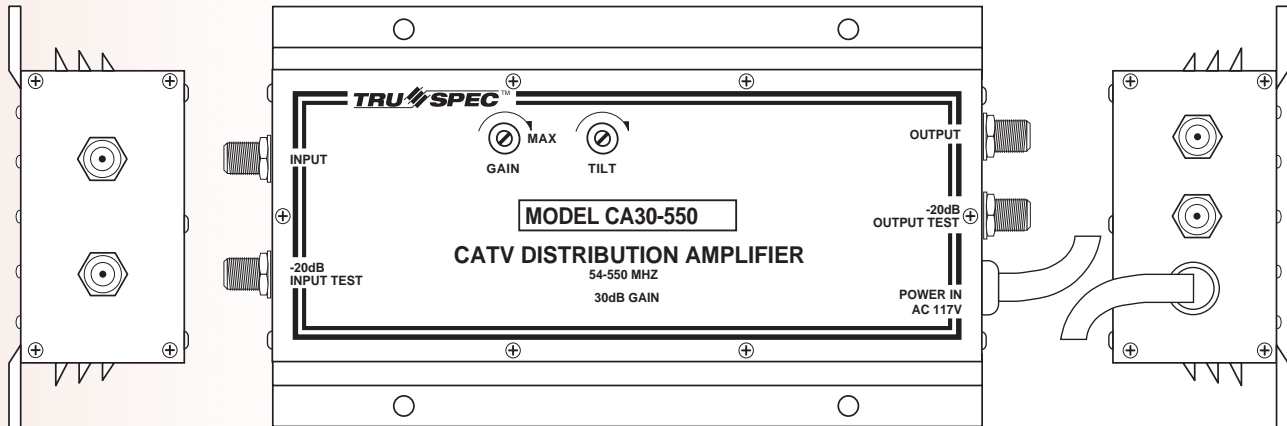
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The **Pico Macom CA30/550** is a high quality push-pull wall-mounted distribution amplifier producing signals with extremely low-noise and harmonic distortion. This amplifier is capable of 82 channel operation over the 54-550MHz range, and makes an excellent distribution system amplifier in MDU, CATV, and SMATV systems. Because of its extremely low-noise figure and low distortion, the **CA30/550** is ideally suited for use in larger networks where amplifier cascading is required. In expanding bi-directional broadband systems, **Pico Macom's PIDA series** bi-directional amplifiers should be used.

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Specifications

| | | | |
|---------------------------------|--------------------------|-------------------------------|---|
| Bandwidth: | 54-550 MHz | Composite Triple Beat: | -61 dB |
| Gain: | 30 dB | Return Loss In: | 16 dB |
| Gain Adjust Range: | 8 dB | Return Loss Out: | 16 dB |
| Slope Adjust Range: | 8 dB | Test Points: | -20 dB |
| Flatness: | ± .5 dB per channel | Power Input: | 115 VAC, 60 Hz, 4 W |
| Max. Output @ Max Slope: | 45 dBmV (54 channels) | Operating Temperature: | -10° to +50° C |
| | -57 dB cross modulation) | Dimensions: | 8"(L) x 2 ³ / ₄ "(D) x 4 ¹ / ₂ "(H) |
| Noise Figure: | 5.0 dB | Weight: | 2.3 lbs. |
| Second Order Beats: | -70 dB | | |

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 |

Ordering Information

CA-30/550