



CARK550

Series

550MHz Push-Pull Headend Amplifiers



- Wide 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
- ± 0.5 dB 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
- Front panel controls and test point enable easy setup and monitoring
- Double 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
- Also available in a wall mount versions as CA30-550 or CA45-550 Distribution Amplifiers

CARK550

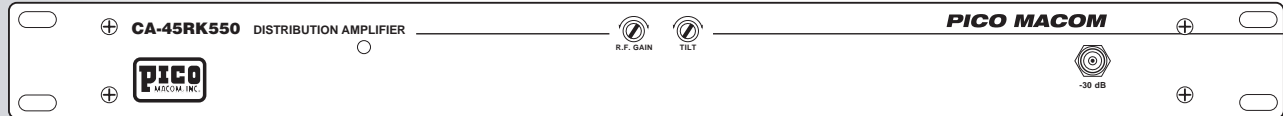
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550MHz Push-Pull Headend Amplifiers

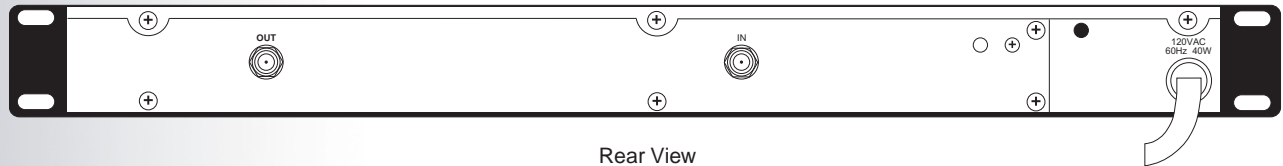
The Pico Macom CA-30RK550 and CA-45RK550 are professional re-broadcast grade push-pull amplifiers producing signals with extremely low noise and harmonic distortion. In the CA-45RK550, the state-of-the-art hybrid amplifier module is preceded by a single transistor stage preamplifier to achieve the total gain of 45dB. The amplifiers are capable of 82 channel operation over the 54-550MHz range. These rack-mounted amplifiers make excellent headend launch amplifiers and are frequently used in conjunction with Pico Macom's passive headend combiners (PHC12G or PHC24G) to overcome losses associated with signal combining in CATV and SMATV systems. Also, the CA30RK550 and CA45RK550 are ideally suited for amplifying the cable input prior to Pico Macom's CEF channel elimination filter in applications requiring "mix-and-match" channel applications or those requiring local insertion. Pico Macom backs up this product with its industry leading 5-year limited warranty.

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550MHz Push-Pull Headend Amplifiers



Front View



Rear View

RF

Bandwidth: 54-550 MHz
Gain: 30 dB or 45 dB
Gain Adjust Range: 0 to 8 dB
Slope: 0 to 8 dB variable
Flatness: ± .5 dB per channel
Max. Output (@ Max Slope): 45 dB (54 channels)
 -57 dB (cross modulation)
Noise:
 CA-30RK550 5.0 dB
 CA-45RK550 6.5 dB
Second Order Beats: -70 dB
Composite Triple Beat: -61 dB
Return Loss In: 16 dB
Return Loss Out: 16 dB

General

Power Input: 115 VAC 60 Hz 4 W
Operating Temperature: -10° to +50° C
Dimensions: 19"(L) x 3"(D) x 1³/₄"(H)
Weight: 3.8 lbs.
Test Points: -30 dB

Ordering Information

CA-30RK550 30 dB Gain Amplifier
CA-45RK550 45 dB Gain Amplifier

Channel Loading Specifications

Total # of Channels	CA-30RK550 Max. Input Level	CA-45RK550 Max. Input Level	Max. Output Level (@ Max. Slope)
7	44 dBmV	29 dBmV	66 dBmV
12	41 dBmV	26 dBmV	63 dBmV
36	32 dBmV	17 dBmV	54 dBmV
54	23 dBmV	8 dBmV	45 dBmV
78	18 dBmV	5 dBmV	40 dBmV