



MCM55

300 MHz VHF High-Gain Push-Pull Amplifier



- **Broadband 54-300MHz frequency range (Channels CATV 2-36, 95-99)**
- **High 55dB 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 (-30dB) 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**
- **External UL approved power adapter supplied for ease of installation and to reduce heat build-up within the unit**



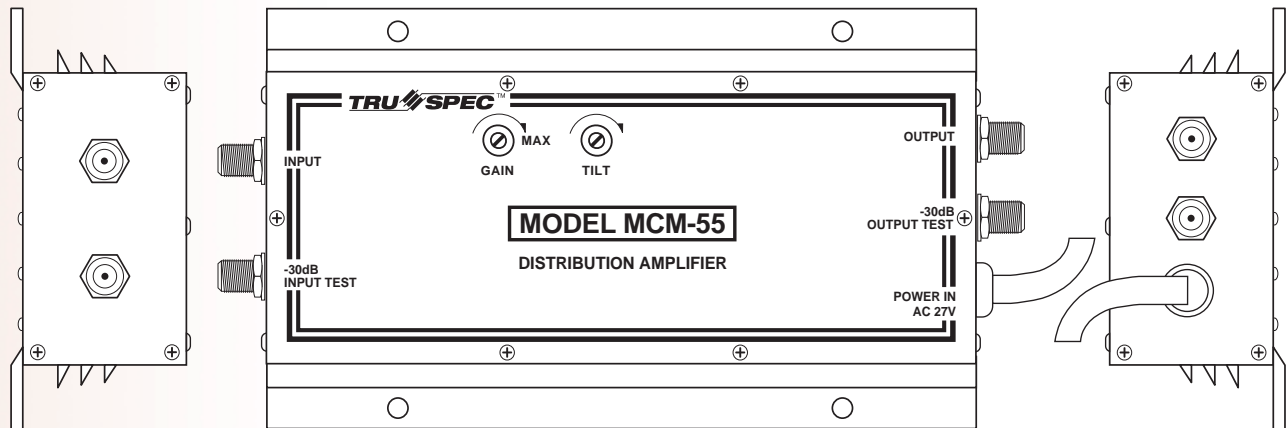
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The **Pico Macom MCM55** is a high quality hybrid push-pull wall-mounted distribution amplifier producing signals with extremely low-noise and harmonic distortion. These amplifiers are capable of 42 channel operation over the 54-300MHz range in smaller MDU, CATV or SMATV systems. Because of its high gain and low noise figure, the **MCM55** is also ideally suited for head-end applications with low-level input signals. The hybrid module provides excellent heat sinking capabilities that are required for the reliability of a high output amplifier. To ensure reliability and minimize heat build-up within the unit, an external UL approved power adapter is supplied.

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Specifications

Frequency Range:	300 MHz
Gain Adjust Range:	12 dB
Slope Adjust Range:	8 dB
Flatness:	±.5 dB from 54 – 300 MHz
Noise Figure:	6.5 dB
Second Order Beats:	-70 dB
Composite Triple Beat:	-61 dB
Return Loss In:	11 dB
Return Loss Out:	14 dB
Test Points:	-30 dB
Power Requirements:	27 VAC 600 mA power adapter
Operating Temperature:	-10° to 50° C
Dimensions:	8"(L) x 4 1/2"(D) x 2"(H)
Weight:	2.8 lbs.

Channel Loading Specifications

Total # of Channels	Max. Input Level	Max. Output Level @ Max Slope
7	11 dBmV	66 dBmV
12	3 dBmV	57 dBmV
36	-4 dBmV	51 dBmV

Ordering Information

MCM-55

Specifications Subject to Change

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