



XBS

Series

Single Channel Strip Amplifiers



- **High output, adjustable to 66 dBmV, for optimal carrier-to-noise ratio and superior picture quality**
- **± 0.5 dB flatness across band provides low distortion and excellent frequency response**
- **Wide AGC dynamic range enables operation even at low input levels**
- **Adjustable sound carrier control for simplified system balancing**
- **Front panel controls and test point enable easy setup and monitoring**
- **Internal band-pass filtering for superior adjacent channel performance**
- **Optional PAL format channels available**
- **Built-in lightning and line voltage surge protection protects the unit from damage**
- **Auxiliary AC outlet for convenience**
- **UL Approved**

XBS

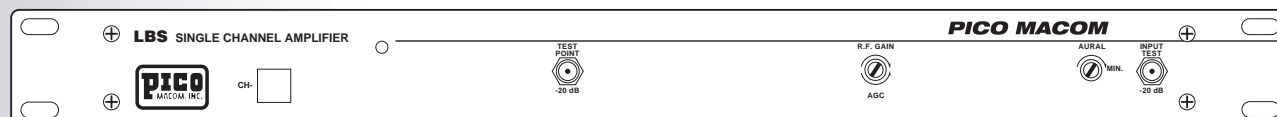
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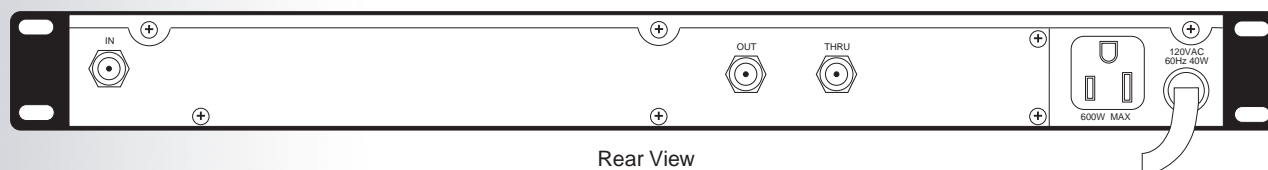
The **Pico Macom XBS** family of single channel professional grade amplifiers covers all bands including VHF, UHF, and FM frequencies. Automatic gain control (AGC) circuitry provides a constant output power level independent of the input level. This "gain-in-reserve" feature is ideally suited for off-air reception applications since it provides for consistent headend performance across a wide range of input levels. These low noise and high gain amplifiers provide excellent signal quality with low distortion for trouble-free operation over wide ambient temperature ranges. Externally adjustable input and output filter controls allow easy lab re-tuning of an amplifier to any channel within band including PAL format channels. A precision voltage regulator eliminates performance changes due to loading or power line fluctuations. **Pico Macom** backs up this product with its industry leading 5-year limited warranty.

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Front View



Rear View

Bandwidth

LBS, MBS, HBS, SBS, UBS: 6 MHz
In-Band Flatness: ± 0.5 dB
FMS switchable: 88-108 MHz or 92-108 MHz

Skirt Selectivity

LBS, MBS, HBS, SBS:
Adjacent Channel F0 ± 9 MHz: -35 dB
Alternate Channel: -60 dB
UBS:
 ± 3 Channels: -50 dB
 ± 6 Channels: -65 dB
FMS Switchable:
Wide, Ch. 5: -40 dB
Narrow, Ch. 6: -20 dB

General

Input Return Loss: -10 dB
Output Return Loss: -15 dB
Power Input: 108 to 120 VAC, 60 Hz, 10 W
Mounting: 19" single rack space
Line Cord: 3-wire grounded
3-wire convenience outlet
Operating Temperature: -10° to 50° C
Dimensions: 19"(L) x 3"(D) x 13/4"(H)
Weight: 3.8 lbs.

Gain and Output Level

FMS Gain: 55 dB below AGC
Maximum Output
@ (.5 dB sync compression): 66 dBmV

Controls

AGC Stiffness: (30 dB input change)
 ± 1 dB at output
AGC Range: 4 to 40 dB
Sound Trap: 0 to -10 dB (adjustable)
Front Panel AGC Adjust Range: 15 dB
Test Points: Input: -20 dB
Output: -30 dB

Ordering Information

LBS - Channel Low-Band
MBS - Channel Mid-Band
HBS - Channel High-Band
SBS - Channel Super-Band (J,K,L only)
UBS - Channel UHF-Band
FMS FM-Band