

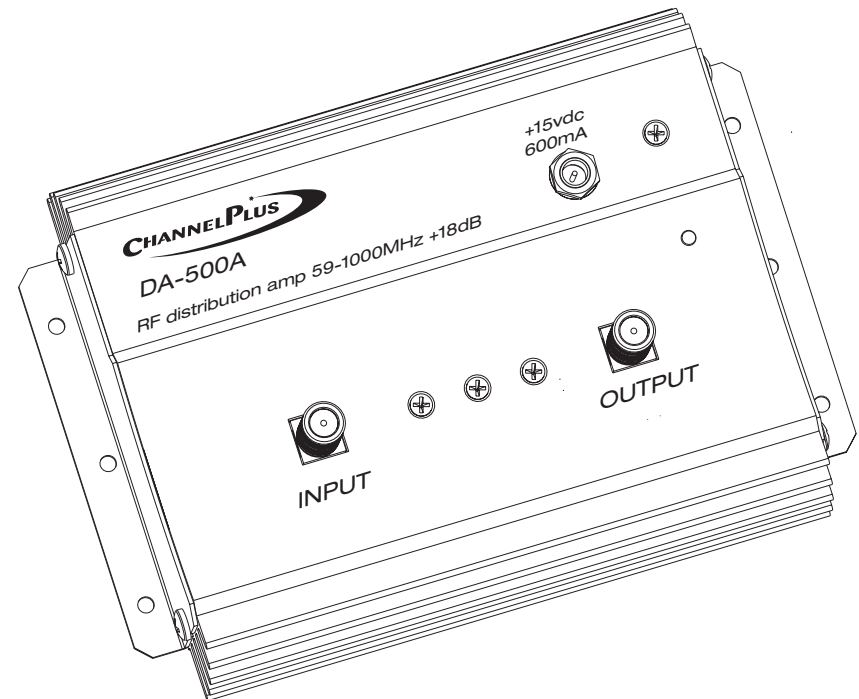


Warranty

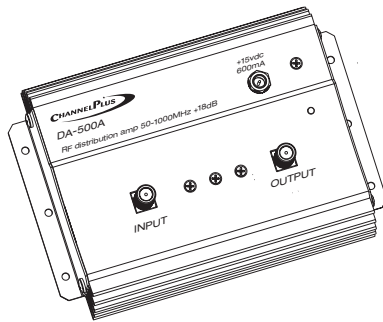
Multiplex Technology, Inc. warrants this product to be free from defects in materials and workmanship for a period of one year from the date of purchase or MTI will repair, or at its option, replace the defective product. To obtain warranty service, call MTI for a return material authorization (RMA) number and return the product prepaid to Multiplex Technology, Inc., 3001 Enterprise Street, Brea, CA 92821, Attention: Customer Service. Please put the RMA number on the outside of the carton.

Any implied warranty arising from the sale of the product including implied warranties of merchantability and fitness for purpose are limited to the warranty stated above. MTI shall not be responsible for losses or damages or expenses, whether direct, consequential or incidental arising from the use of or the inability to use this product. Some states do not allow limitations on how long the implied warranty lasts or the exclusion or limitation or incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which may vary from state to state.

DA-500A



The ChannelPlus DA-500A is a high power, low noise, low distortion RF distribution amplifier. It features flat response from 50MHz to 1000 Mhz. The DA-500A is suitable for all off-air and all uni-directional CATV applications, VHF (high and low), FM, Midband, Superband, Hyperband, Ultraband and UHF. The low distortion push-pull circuit design incorporates surface mount and strip line technologies for high reliability and small size. The DA-500A is designed for indoor use only.



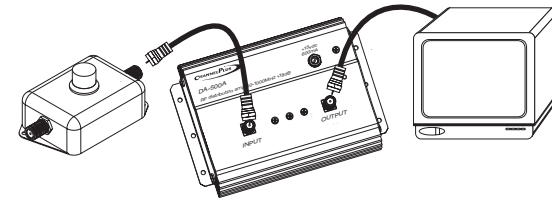
Specifications: typical @ 25°C ± 5°C

Gain:	18dB
Bandwidth:	50-1000MHz
Flatness:	+/- 1.5dB
Max output @ all freqs:	
6 channels	48dBmV
12 channels	45dBmV
24 channels	42dBmV
48 channels	39dBmV
Noise figure:	5.5dB
Power supply (included):	
350-079	15 VDC @ 600 mA

Troubleshooting Tips

Herringbone patterns on several channels.

A wavy pattern on the TV picture is caused by one or more spurious signals in the 6MHz reserved for that TV channel. These spurious signals, or 'spurs' can come from several places. For example, a modulator at channel 16 will interject a spur into channel 15. But the prime cause of spurs is an over-driven distribution amplifier. (This is also known as IM or InterModulation distortion.) To determine if an amplifier is causing this distortion, an inexpensive variable attenuator will allow you to perform this simple test:



Insert the variable attenuator before the amp. (If you have splitters between the amp and TV, that's OK.) By *increasing* the attenuation, you are *decreasing* the signal that reaches the amp. If you find that the herringbone patterns disappear, then your problem is an over-driven amplifier.

Causes of an over-driven amp:

- 1) Too much gain in the system. Use the variable attenuator to find a setting where the signals are not noisy, and the amp is not being over-driven.
- 2) Strong local FM signal. If you have a nearby FM transmitting tower, you may need to install an FM trap before the amplifier.
- 3) Strong local TV signal. If you have a nearby TV transmitting tower, you may need a tuned filter to reduce this station's signal. Often the station management can supply filters for their neighbors.

Variable attenuators and FM traps are available at many hardware stores and most electronic stores.

For more troubleshooting tips and installation advice, visit us on the web at www.channelplus.com.