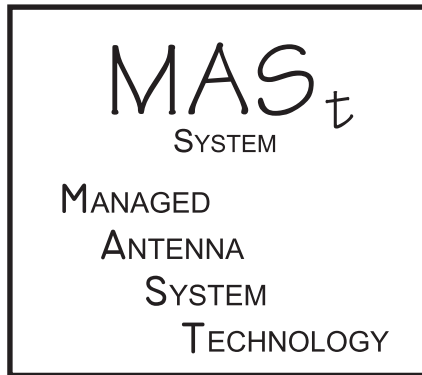




MAS-524 MK-II
4x1 Transmitter Combiner
Technical Specifications



Audio Specialties Group and any of its vendors, dealers or representatives forbid the use of the MAS-524 in any way that is contrary to FCC Regulations.

Utilizing the MAS-524 MK-II in a manner that is contrary to FCC Regulations is expressly forbidden.

Maintaining power levels to within FCC regulations is the sole responsibility of the user.

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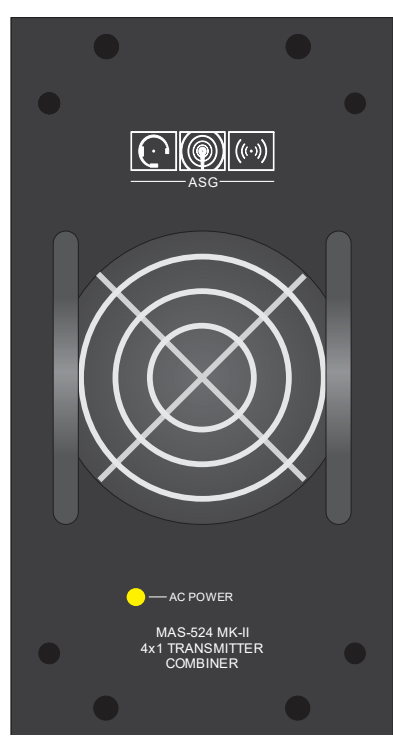
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1.1 Introduction

The MAS-524 MK-II 4x1 Transmitter Combiner is a 2-HP (horizontal pitch) module that is compatible with the ASG MAS-Rack Series 500 system. It is a passive device used to combine up to four transmit signals into a single connector output. RF performance parameters are defined by internal options. See serial number addendum for specifications.


1.2 Features




The AC Power LED indicates AC power is present to energize the cooling fan. The MAS-524 MK-II does not require AC power to function as a combiner. It is only required for heat dissipation for high-power applications.

2.1 Precautions

2.1.1 Explanations

 Identifies important performance information

 Identifies safety information


Note Identifies important operator actions


2.1.2 Environmental

 Do not expose the MAS-524 MK-II to rain or direct sunlight.

 Maintain proper ventilation for temperature specification.

2.1.3 Electrical

 Emission specifications will only be met if operated within the guidelines of this manual. Operating the MAS-524 MK-II other than as specified can generate unwanted radio frequency radiation that could adversely affect the proper operation of other electrical equipment.

 Do not remove output transmission cabling or radiating device from the transmission cable while RF power is active. High power RF energy can cause burns and electrical shock. Damage can occur in the power amplifier stage if the output becomes unloaded.

2.2 Power Dissipation.

Note If the system is used out doors or in an otherwise un-air conditioned environment, proper ventilation and air flow is critical. Do not obstruct the front-to-back air flow.

2.3 Connections

A single RF connection is provided for each input. The combined output is available as a -6dBm power output.

2.4 Adjustments

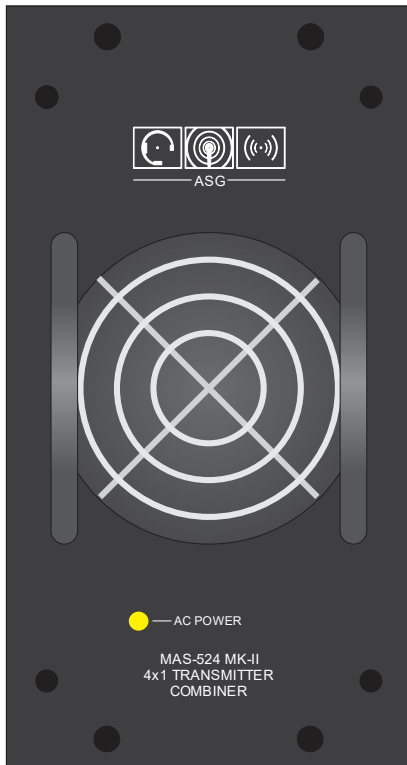
There are no adjustments on this device



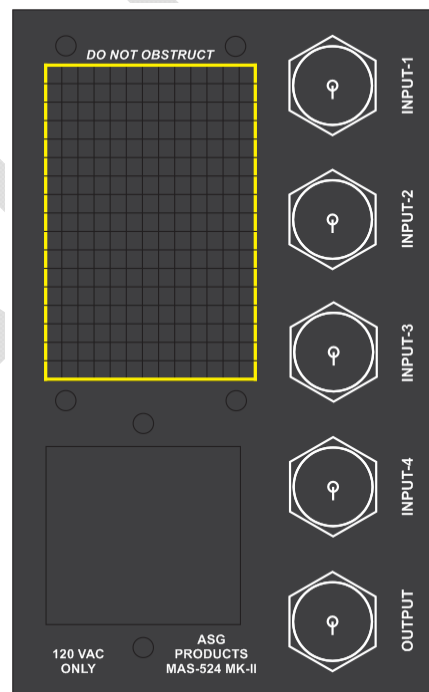
Verify that the signal level does not exceed the analyzer's maximum input specification.

Note Common practice is to place the lowest frequency signal on input #1 and the highest on input #4. This allows the spectrum analyzer to display the carriers left to right on the screen as inputs 1-4 in order of ascending frequency. This is *not* required for proper operation.

3.1 Front Panel Layout



3.2 Rear Panel Layout



4.1 Electrical Specifications

RF Bandwidth:	Varies by serial number
Maximum RF Input level:	Varies by serial number
Output Level:	Varies by serial number

4.2 Operational Conditions

Temperature 20 Degrees Celsius to 40 Degrees Celsius

Measured Performance

Measured Performance (MAS-524 MK-II)

Serial # _____

Test Parameters

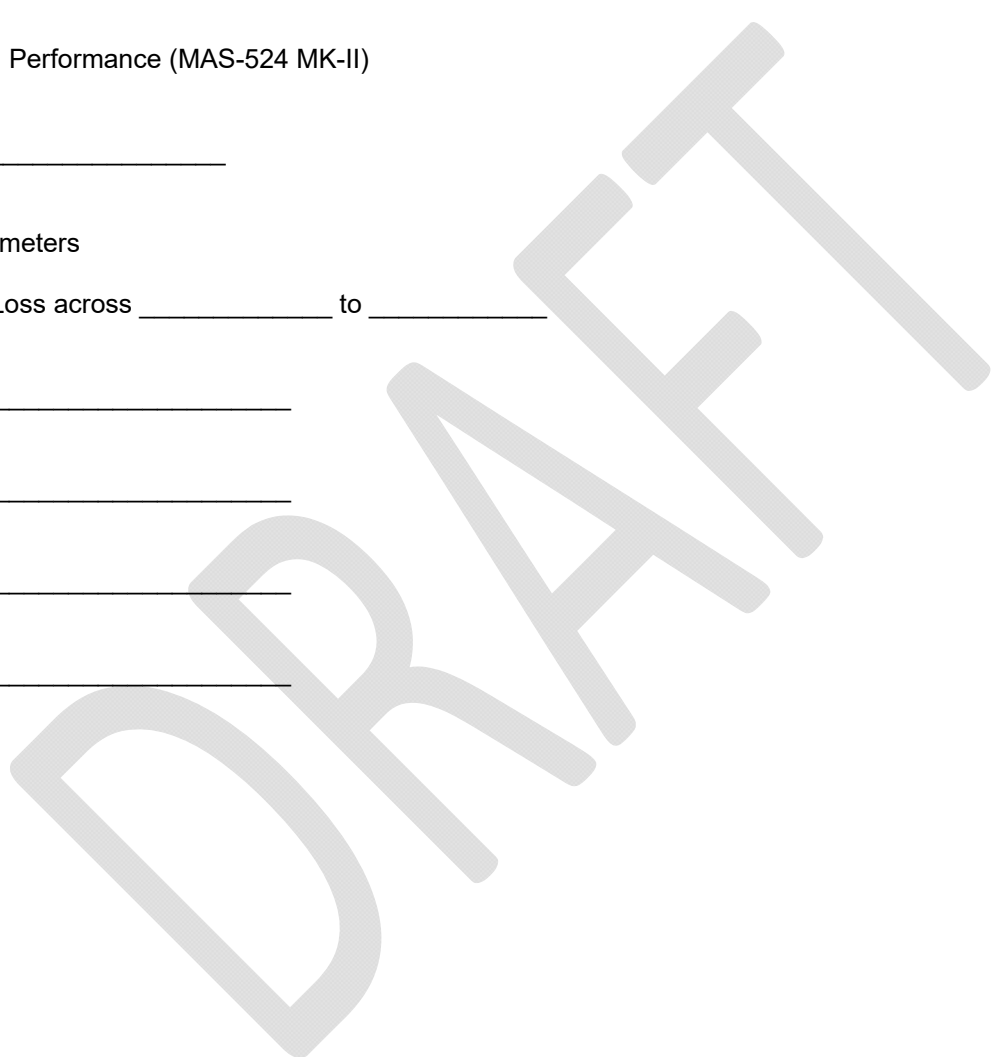
Average Loss across _____ to _____

Input #1 _____

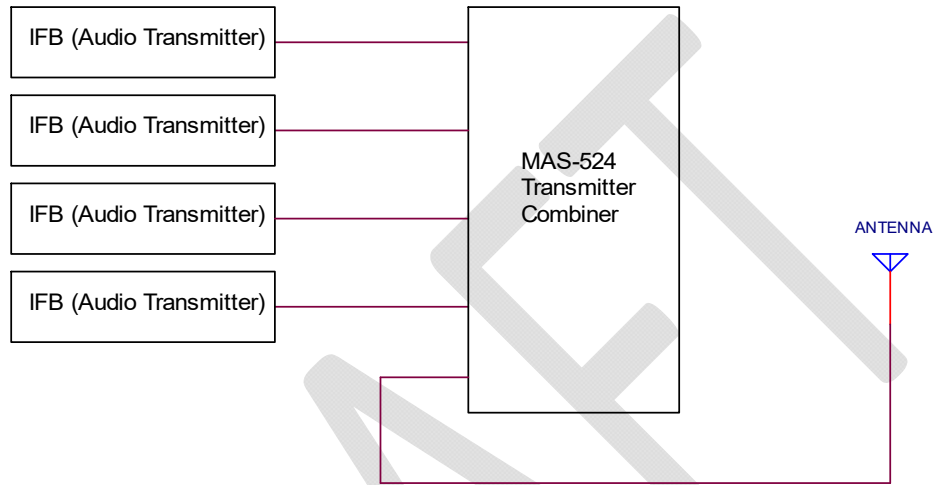
Input #2 _____

Input #3 _____

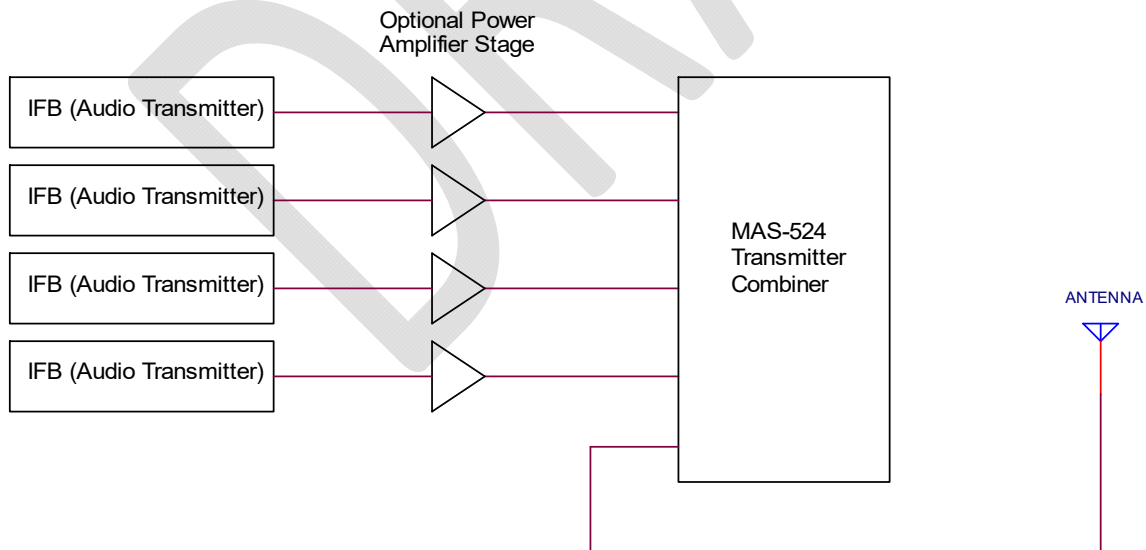
Input #4 _____



Typical Applications



This application uses no additional amplification. Used when the coverage area is a small stage or other area which does not require a full legal limit RF energy.



This application uses additional amplification. Ideal for large areas or for splitting the output to multiple transmit antennas for coverage in complex facilities with multiple stages. Proper amplification can yield full legal limit energy on each carrier on multiple antennas.