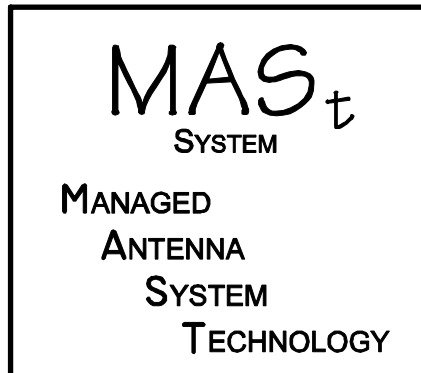




Audio Specialties Group  
Products Division

**MAS-518-V**  
**2x1 Transmitter Combiner**  
**Technical Specifications**



Rev-0

Audio Specialties Group and any of its vendors, dealers or representatives forbid the use of the MAS-518-V in any way that is contrary to FCC Regulations.

Utilizing the MAS-518-V in a way 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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## SECTION 1 INTRODUCTION


The MAS-518-V 2x1 Transmitter Combiner is a 1-HP (horizontal pitch) module that is compatible with the ASG MAS-Rack Series 500 system. It is a passive device used for combining up to two transmit signals into a single connector output.

## SECTION 2 FEATURES

## SECTION 3 OPERATION

### 3.1 PRECAUTIONS

#### 3.1.1 Explanations

 Identifies important performance information

 Identifies safety information


*Note* Identifies important operator actions


#### 3.1.2 Environmental

 Do not expose the MAS-518-V to rain or direct sunlight.

 Maintain proper ventilation for temperature specification.

#### 3.1.3 Electrical

 Emission specifications will only be met if operated within the guidelines of this manual. Operating the MAS-518 other than as specified can generate unwanted radio frequency radiation that could adversely affect the proper operation of other electrical equipment.

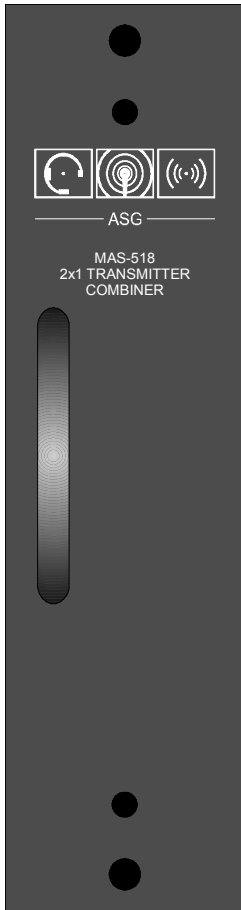
 Do not remove output transmission cabling or radiating device from the transmission cable while RF power is active. High power RF energy can cause burns and electrical shock. Damage can occur in the power amplifier stage if the output becomes unloaded.

### 3.1 Connections

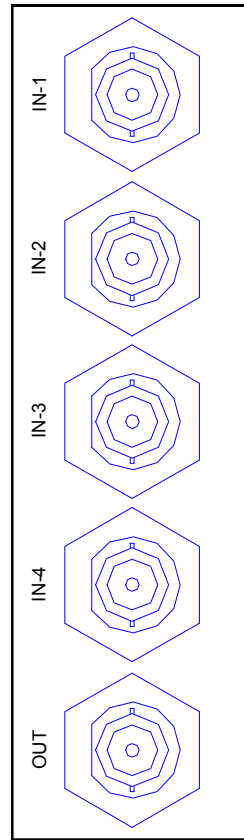
A single RF connection is provided for each input two inputs. Input connectors In-3 and IN-4 are not used. The combined output is available as a full power output.

### 3.2 PANEL LAYOUTS

#### 3.2.1 Front Panel Layout



#### 3.2.2 Rear Panel Layout



The MAS-518 rear panel will only feature three BNC connectors though labeling may indicate the presence of five. Inputs 3 and 4 are not implemented.

## SECTION 4 SPECIFICATIONS

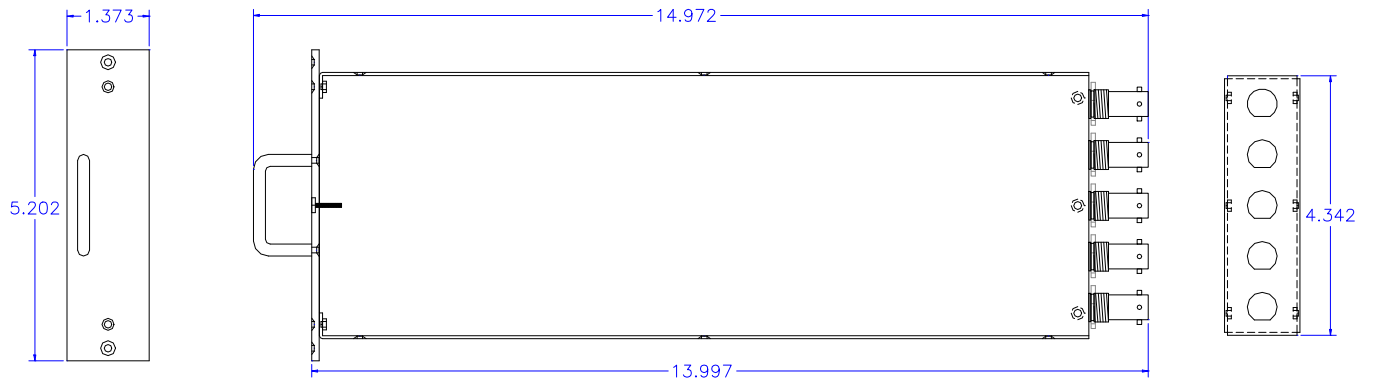
### 4.1 Electrical Specifications

RF Bandwidth :	100-600MHz
Maximum RF Input level:	+5W per input, single carrier
Output Level:	-7dBm below input amplitude

### 4.2 Operational Conditions

Temperature -55 Degrees Celsius to 100 Degrees Celsius

### 4.3 Mechanical Parameters



Specifications subject to change without notice.

Measured Performance (MAS-518-V)

Serial # \_\_\_\_\_

Test Parameters

Average Loss across 100-600MHz

Input #1 \_\_\_\_\_

Input #2 \_\_\_\_\_