Audio Specialties Group
Products Division

MAS-516
Receive Signal Splitter
Technical Specifications

MAS$_t$
SYSTEM
MANAGED
ANTENNA
SYSTEM
TECHNOLOGY

Rev-0

TABLE OF CONTENTS

SECTION 1

Introduction/Features

1.1 Introduction

The MAS-516 Receive Signal Splitter is a 1-HP (horizontal pitch) module that is compatible with the ASG MAS-Rack Series 500 system. It is a passive splitter used for feeding up to four inputs from a single source.

1.2 Features

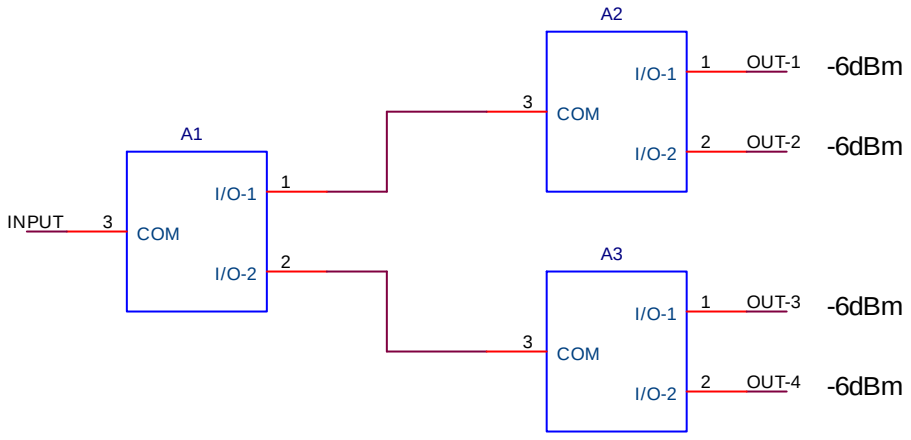
This single channel device is DC protected for use with powered-antenna type connections and will work as one-half of a diversity system or alone for non-diversity applications. It is available as a 1x2, 1x3 or 1x4 device.

SECTION 2

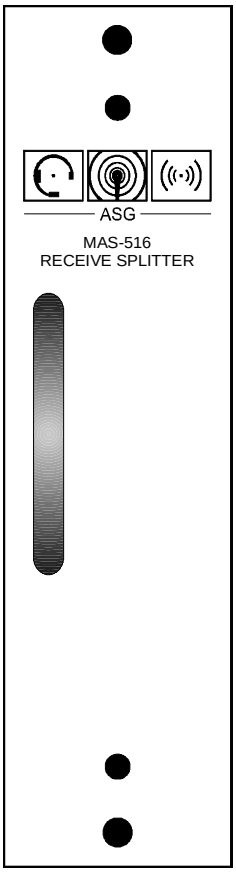
Operations

2.1.1 Connections

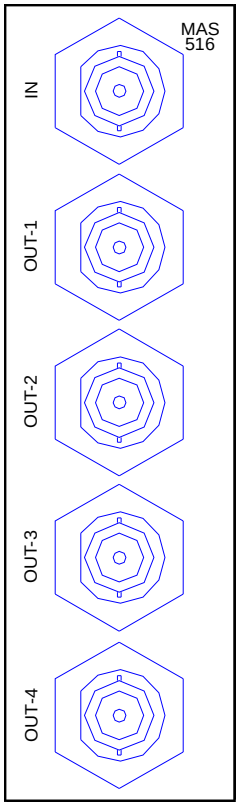
A single RF connection is provided for the input. Each of the four outputs will be a -6dBm equivalent signal. These outputs would typically be routed to the receive inputs of wireless microphone receivers or intercom base-stations.



3.2.1 Front Panel Layout



3.2.2 Rear Panel Layout



4.1 Electrical Specifications

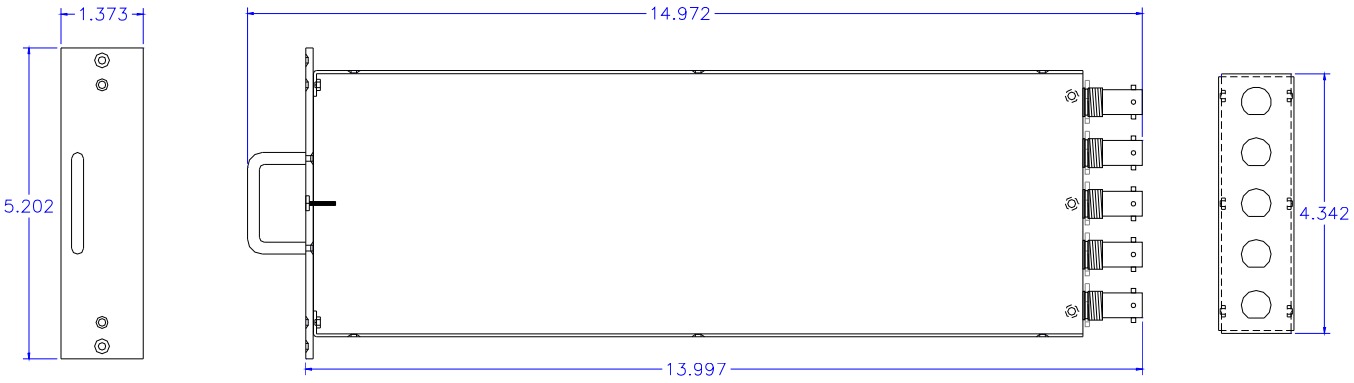
4.1.1 Electrical Specifications

RF Bandwidth:	100MHz to 1GHz
Noise Figure:	na
Maximum output:	na
Maximum RF Input level:	+5dBm with no damage
Output Level (1x2):	-4dBm
Output Level (1x4):	-7dBm

4.1.2 Operational Conditions

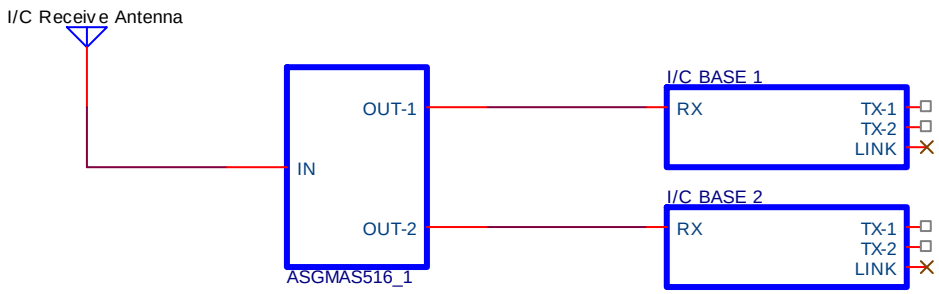
Temperature -20 Degrees Celsius to 60 Degrees Celsius

4.1.3 Mechanical Parameters

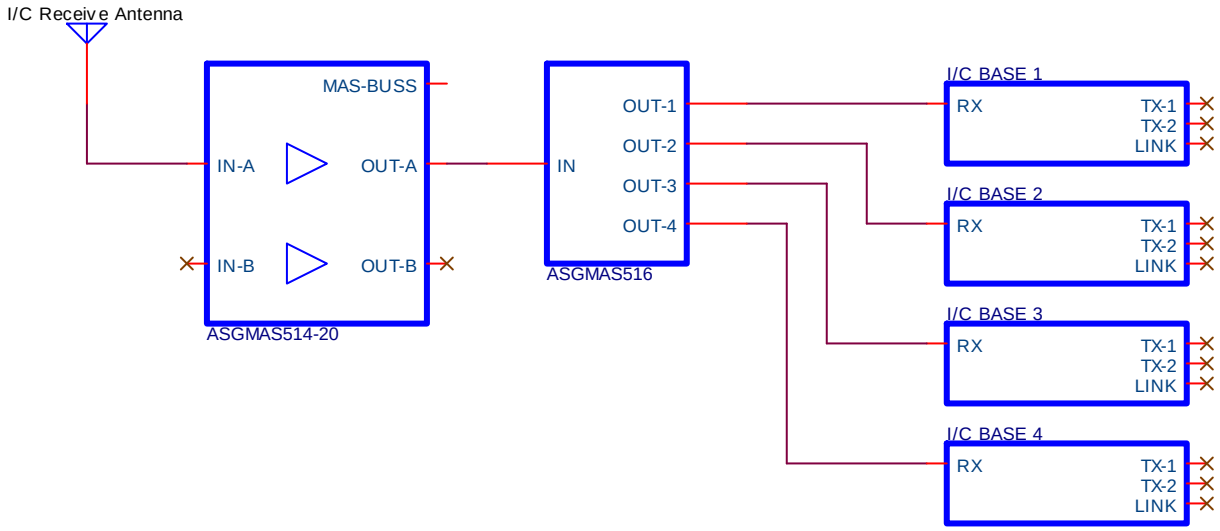


Specifications subject to change without notice.

4.1 Typical Applications



This application shows a single receive antenna split to two intercom base-stations.



This application shows a single receive antenna split to four intercom base-stations with a RF Preamplifier included to overcome losses.

Measured Performance (MAS-516)

Serial #_____

Test Parameters

Average Loss across 470-700MHz

Output #1_____

Output #2_____

Output #3_____

Output #4_____