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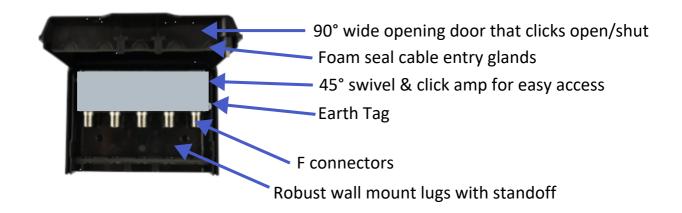
Masthead amplifiers are used to boost weak signals received by the aerial improving signal strength, reducing noise and enhancing the overall quality of the received signals.

They work by amplifying radio frequency (RF) signals captured by the aerial before any signal loss occurs as it travels down to the cable. They are particularly useful in areas with low signal quality and outdoor robust areas.

Masthead amplifiers are an essential component in receiving systems that ensure a better signal quality by amplifying weak signals captured by outdoor aerials before transmitting them to the indoor receiver.

ALL MASTHEADS REQUIRE POWER. PLEASE SEE PRODUCTS AND FEATURES FOR MORE INFORMATION.

Our robust housing is specifically designed with the installer in mind.



Applications

Our masthead amplifiers have many applications that help enhance signal strength and improve the quality of received broadcasts. These can include but aren't limited to television reception, radio reception, satellite TV reception, remote location signal, multi-story buildings, outdoor antennas and digital broadcasting.





Mastheads & Features





1-Way Masthead Amplifier BLAMHD11H

- Fixed high gain (27dB)
- Frequency range 470-694MHz
- · Power LED on amplifier
- Triple Filtered: 4G, 5G & TETRA
- RED Class 1
- Low noise figures <2.2dB

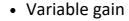




2-Way Masthead Amplifier BLAMHD12V

- Variable gain (5-20dB)
- Frequency range 470-694MHz
- · Power LED on amplifier
- Triple Filtered: 4G, 5G & TETRA
- RED Class 1
- Low noise figures < 2.2dB

Also available as kit with power supply **BLAMHD12V-PS**



o Standard: 1-16dB

o High Gain: 12-27dB

- Frequency range 470-694MHz
- Power LED on amplifier
- Triple Filtered: 4G, 5G & TETRA
- RED Class 1
- Low noise figures <2.2dB





4-Way Masthead Amplifier BLAMHD14V

High variable gain

BLAMHD14VH

Also available as kit with power supply **BLAMHD14V-PS**

High Gain kit with power supply

BLAMHD14VH-PS









8-Way Masthead Amplifier
BLAMHD18V

- Variable gain (5-20dB)
- Frequency range 470-694MHz
- · Power LED on amplifier
- Triple Filtered: 4G, 5G & TETRA
- RED Class 1
- Low noise figures <2.2dB

Power Supplies & Features



1-Way LTE Filtered Inline Power Supply
BLAPSU11F

- Linear power supply, low noise
- Power LED:
 - *Green = Power
 - *Red = Short
- Additional 15dB LTE protection



2-Way LTE Filtered Inline Power Supply BLAPSU12F

- Built-in LTE Filter: 5G & 4G
- Linear power supply, low noise
- 230V~50Hz 3W
- Output 12V, 100mA





Masthead Specification

	BLAMHD11H	BLAMHD12V	BLAMHD14V	BLAMHD14VH	BLAMHD18V
Outputs	1	2	4	4	8
Signal Frequency Range	470-494MHz	470-494MHz	470-494MHz	470-494MHz	470-494MHz
Noise Figure	2.5dB / 4.0dB				
Gain	High Gain 27dB	Variable 5-20dB	Variable 1- 16dB	Variable 12-27dB	Variable 5-20dB
Output Capability	106dBuV	100dBuV	96dBuV	100dBuV	100dBuV
Max. Recommended Input	80dBuV	80dBuV	80dBuV	80dBuV	80dBuV
Isolation Between Outputs	>20dB	>20dB	>20dB	>20dB	>20dB
DC Power Requirement	12V@50mA	12V@50mA	12V@50mA	12V@50mA	12V@50mA
Input Filter Characteristic	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection	TETRA: > 30dB rejection. LTE (5G/4G) > 45 dB rejection





Masthead Specification CTD.

	BLAMHD11H	BLAMHD12V	BLAMHD14V	BLAMHD14V H	BLAMHD18V
5G LTE Filtered	Accord with EN 303 354: Class 1				
Op. Temp. Range	-20 +50°C				





	BLAPSU11F	BLAPSU12F	
Outputs	1	2	
Signal Frequency Range	5-694MHz	5-694MHz	
Signal Insertion Loss	<3dB (typ.)	<4dB	
Isolation Between Outputs	-	>20dB	
Output Voltage	+12V Regulated DC(±0.6V)	+12V Regulated DC(±0.6V)	
Output Current Rating	100mA max	100mA max	
Output Protection	Withstands Indefinite Output Short- Circuit Without Damage	Withstands Indefinite Output Short- Circuit Without Damage	
Power and Status Indicator	Green-Normal, Red- Short	Green-Normal, Red- Short	
Input Filter Characteristics	LTE (5G/4G) > 30 dB rejection	LTE (5G/4G) > 30 dB rejection	
Filter specifications	BS EN 50083 (Standard 3 filter)	BS EN 50083 (Standard 3 filter)	
Mains Power Requirement	230V 50Hz at 3A (3VA)	230V 50Hz at 3A (3VA)	
Operating Temperature Range	-20 +50°C	-20 +50°C	
Standards Compliance	Safety: EN IEC62368 EMC: EN 50083	Safety: EN IEC62368 EMC: EN 50083	