

Datasheet

Vision Gold Masthead Amplifiers

Single Input / Single Output

V20-1113	13dB Fixed Gain -	Ultra Low Noise UHF Masthead Amplifier
V20-1124	24dB Fixed Gain -	Very Low Noise UHF Masthead Amplifier
V20-1127	27dB Variable Gain -	Very Low Noise UHF Masthead Amplifier

- Ultra low noise figure down to 0.80dB & super flat gain response ± 0.5 dB
- Low energy power consumption, 5V to 12V DC working
- High output capability designed for digital and analogue TV
- Fully screened with gold F-connectors for superior connectivity
- SMD technology with compartmentalised screening for extra low noise and high performance
- Accepts "type 125" coaxial cables and connectors for extra long cable run
- High quality ventilated weatherproof housing (IP53 rated)
- Designed and built in the UK
- Masthead amplifier and PSU kits available

When amplifying weak digital signals, the amplifier noise figure is critical. The lower the Noise Figure, the weaker the digital signal that can be reliably amplified. So these amplifiers will work where others fail. That is why Vision has designed these amplifiers using the latest semiconductors and SMD technology to provide you with industry leading low noise figures and reliability.

Vision Gold masthead amplifiers have built-in UHF band-pass filters, carefully tuned not to filter the wanted channels at the edges of the band but tight enough to shut out unwanted signals such as TETRA and GSM transmissions.



Model	V20-1113	V20-1124	V20-1127
Input Frequency		470-860MHz	
Maximum Gain	13dB	24dB	27dB
Gain Flatness	± 0.5 dB	± 0.5 dB	± 0.5 dB
Interstage Level Adjustment	Fixed	Fixed	12dB
Maximum Output Level*	100dB μ V	104dB μ V	100dB μ V
Maximum Input Level**	87dB μ V	80dB μ V	81dB μ V
Noise Figure	0.80dB	1.0dB	1.1dB
DC Power		5V to 12V	
Power Consumption	40mA	50mA	50mA
Connector		Gold plated F-female	
Fixing		Nylon-tie up to 60mm masts / or bulkhead screw fixing	
Dimension / Packed Weight		96mm x 84mm x 56mm / 154g	
Bulk Packing / weight		Packs of 10 shrink-wrapped 1.58kg	
DC Power Supply when purchased as a kit	V23-2102 / V23-2110 12V 100mA with short circuit and overload protection		
RoHS Compliance	RoHS compliant. Intended for professional fixed installation only		
*Maximum Output EN50083-3 (IMD ₃ -60)	**Maximum input level quoted with attenuator set to maximum -12dB attenuation on V20-1127		

*In the interests of continued product development & improvement, Vision Products (Europe) Ltd reserves the right to change product specifications, design & dimensions. Data correct at time of going to press. 08/09/2011
Revision Sept 2011*