

1.2 GHz 2 WAY MDU AMPLIFIER

[AMPV-1-32/23-x/x-x] Cable Products, Amplifiers

Description

Taikan's AMPV-1-32/23-x/x-x is a 1.2 GHz two-way, one output mini trunk amplifier. Its modular design allows integration of forward (downstream), and return (upstream) amplification in one water-resistant unit. This reliable, high performance amplifier provides a cost effective solution for optimizing HFC TV networks.



Features

- 5-1218 MHz Bandwidth Range
- Forward Gain of 32 dB and Return Gain of 23 dB
- Modular Design with Detachable Amplifier and Power Supply
- One 110 dBuV Output Port
- 1.2 GHz Frequency Amplifier Platform with SMT Technology
- 1.2 GHz GaAs Double Power Amplifier Module Offers High Linearity and Fidelity
- Rugged Outdoor Aluminum Alloy Die-cast Housing Offers Excellent Water Resistance and Electromagnetic Shielding Performance
- Transistor Surge Arrester Resists Lightning and Surge Voltages

Ordering Information

AMPV-1-32/23 - **x** / **x** - **x**
 U: US Power Adapter 110V; E: Europe Power Adapter 220V
 42/54 (5-42 / 54-1218); 65/85 (5-65 / 85-1218); 55/70 (5-55 / 70-1218); 85/105 (5-85 / 105-1218)

Model Number	Description	Box Weight	Dimensions (L x W x H)
AMPV-1-32/23-x/x-x	1218 MHz 2 Way Multi-Dwelling Unit Amplifier	2.2 kg / 5 lbs	200 x 115 x 55 mm. (7.9 x 4.5 x 2.2 in.)

Forward (Downstream) Specifications

Forward (Downstream) Bandwidth	110 - 1218 MHz	
Max Gain	32 dB	
Flatness	± 1 dB	
Return Loss	≥ 16 dB	@ 110 Mhz, -1.5 dB/octave, Min >11
Noise Frequency Ratio	< 7 dB	
Input ATT	0 - 15 dB	
Input EQ	0 - 10 dB	
Interstage ATT	0 - 15 dB	
Interstage EQ	4 / 8 dB	
Output Level Range	108 dBμV	
CNR	≥ 52 dB	European Standard 41 CH analog signal, input: 75 dBuV
CTB	≥ 60 dB	Output: 107 dBuV@1218 Mhz,
CSO	≥ 60 dB	Interstage EQ: 8 dB
MER	≥ 40 dB	110-862 Mhz in full configuration, QAM256 digital signal
BER	1.00E-09	Input: 75 dBuV, Output: 104 dBuV@1218 MHz Interstage ATT: 3dB, Interstage EQ: 8 dB

Return (Upstream) Specifications

Return (Upstream) Bandwidth	30 - 85 MHz	
Gain	23 dB	
Flatness	± 1 dB	
Return Loss	> 15 dB	
Noise Frequency Ratio	< 6 dB	
Input ATT	0 - 20 dB	
Interstage ATT	0 - 20 dB	
Interstage EQ	0 / 4 dB	
MER	≥ 38 dB	European Standard 41 CH analog signal, EQ: 8 dB
BER	1.00E-09 dBμV	Output: 110 dBμV@1218 Mhz,
NPR Dynamic Range	> 30 dB	@36 dB CNIR

Additional Specifications

Waterproof Level	IP41
Supply Voltage	90 - 240 V
Test Port	-30 ± 2 dB
F Connector	Inch, female
EMC	EN500083-2-2006 table10-class A
Impedance	75 Ω
Power Consumption	< 18 W
Surge	4 (RF port) KV
ESD	2 (RF port) KV
Operating Temperature	-20 to +55 °C (-4 to +131 °F)

Functional Block Diagram

