



Outdoor CATV Line Amplifier 1/2 outputs + Variable return path (DOCSIS 3.1)

CATV amplifier with active return path, configurable with active diplexer filters, for indoor and outdoor use and Gallium Arsenide Technology (GaAs). It provide a high output level and it is designed for DOCSIS 3.1 applications up to 1220 MHz, such as Cable Networks, Hotels, Hospitals, etc. where it is necessary to boost forward and return path signals.

The aluminium frame and its Ingress Protection Code IP67 enables outdoor installation.

Ref.	534501
Logical ref.	HVG1220-42
EAN13	8424450224182

Packing

Box	1 pcs.
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Physical data

Net weight	1,890.00 g
Gross weight	1,890.00 g

Highlights

- Working frequency up to 1220 MHz
- Compliant with DOCSIS 3.1 Requirements

- Flexible upstream between 5-42, 5-85 & 5-204 MHz using pluggable diplexer PADs

Main features

- 1220 MHz GHz DS-bandwidth
- Modular return way up to 204 MHz
- Gallium Arsenide technology (GaAs)
- Interruption-free electronic adjustment, basic settings without additional accessories
- 7-Segment display, simply to adjust by keypad
- IN/OUT connectors in vertical or horizontal position
- 1 or 2 outputs configurables with splitter or PAD
- Surge protection 6 kV
- Return path can be switched off
- Strand mountable, outdoor installation (IP67)

Technical specifications

Technical specifications	Units	534501					
		Forward path			Return path		
Frequency Range	MHz	54-1220	105-1220	254-1220	5-42	5-85	5-204
Gain	dB	42			28		
Flatness	dB	±0.75			± 0.5		
Input / Output Return Loss	dB	≥ 20 @ 40 MHz -1,5 dB/ Octave >12 @ 1220 MHz			≥ 15 5-10 MHz ≥ 20 10-65/85/204 MHz		
Input attenuator	dB	20 dB (1 dB steps) Factory preset -20 dB					
Interstage attenuator	dB	6					
Output attenuator	dB	-			30 dB (1dB steps) Factory preset -30 dB		
Input Equalizer	dB	25 dB (1 dB steps)			-		
Interstage slope	dB	20 dB (1 dB steps)			16 dB (1 dB steps)		
Noise Figure	dB	7 / 8					
Output Level	dBmV (dBμV)	54 (114) 41 Channels CENELEC CSO/CTB > 60 dBEN60728-3 (Without K2)					
Maximum operating level at U _{max} (N) BER≤10 ⁻⁹	dBmV (dBμV)	47 (107) EN60728-3 Ed5 N=119			47 (107) EN60728-3 Ed5 N=24		
Maximum operating level slope 9 dB U _{max} (N) BER≤10 ⁻⁹	dBmV (dBμV)	49 (109) EN60728-3 Ed5 N=119			-		
Input level density 50 dB NPR @ 180 MHz load. Dynamic Range 24 dB	dBmV/Hz	-66 ... -42			-		
Power supply	V~	Internal 200...240 VAC 50 Hz Switch mode					
HUM modulation	dB	>70 @ 7 A					
Overvoltage protection		6 KV EN 60728-3					
Power consumption	W	18					
Connector		5/8 Recommended Inner Conductor lenght: 27 mm from the O-ring seal					
Temperature	°C (°F)	-30...60 (-22... 140)					
IP		IP67					
Weight	kg (lb)	1.8 (3.97)					
Dimensions (LxWxH)	in (mm)	225 x 195 x 95					