

ELECTROLINE



Drop Amplifier with Forward and Return Gain EDA-AR Series

Description

Long recognized as the industry leader in quality drop amplifiers, the Electroline EDA series offers the most complete range of high-quality, low-noise drop amplifier products available on the market. Within the EDA family, the EDA-AR01240 and EDA-AR01241 offer significant gain for the upstream path while at the same time providing low noise figures and high performance in the downstream path.

Like all of Electroline's drop amplifiers, these compact one-port versions offer the same performance and standards as all other versions in the EDA family, which operators have consistently relied on since the first gallium arsenide (GaAs) chips were pioneered by Electroline.

Fully compatible with all signal formats, both analog and digital, the EDA-AR offers a low-noise figure (3 dB) and very flat (± 0.5 dB) amplification of the downstream.

The optional power inserter for the EDA-AR provides greater flexibility and can result in configurations that may reduce the amount of coaxial cable required.

Applications

Today's cable subscriber may have much more than just a simple cable-ready TV set in the home. It is not uncommon to see multiple television sets, set-top boxes, VCRs or other recorders, a cable modem, and so forth.

Since each home has a different set of devices and a different home wiring configuration, you need to evaluate the gain required at the source to be able to provide adequate signal levels to all devices and take into account the presence of splitters and of long cable lengths which reduce the amount of available signal.

The EDA-AR series one-port drop amplifier is best used in homes where a 10 dB gain is sufficient to provide good signal levels to all the subscribers devices (TVs, set-top boxes, recorders, etc.).



Whether used with a power inserter or without a power inserter, the EDA-AR series provides 10 dB of gain in both the downstream and the upstream.

The Electroline Advantage

Being in first place is one thing – staying there is another. Electroline's pioneering experience in drop amplifier technology has meant continually making improvements to each new member of the EDA family, whether it be for more compact footprints, a greater number of ports or reverse path applications. Electroline uses field-proven gallium arsenide integrated circuits and builds surge protection into each unit, thus setting the industry standard for quality and performance.

Features

- Reverse amplifiers overcome losses due to splitting in the home
- Fully compatible with all digital and analog signal formats, forward and reverse
- Noise figure of 3 dB
- 6 kV surge protection on rf ports
- Weatherproof housing
- SCTE-compliant F connectors
- Operating temperature range -40 to 50 °C

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EDA-AR01200 Series

Specifications – Electrical

Specification		Typical	Worst
Forward Passband 54 – 1002 MHz			
Forward Gain		10 dB	9 dB
Forward Flatness		±0.5 dB	±1 dB
Cross-modulation (XMOD) (See Note 1)		-75 dBc	-70 dBc
Composite Triple Beat (CTB) (See Note 1)		-75 dBc	-70 dBc
Composite Second Order (CSO) (See Note 1)		-65 dBc	-62 dBc
Noise Figure		3 dB	4.5 dB
Forward Band Group Delay (3.58 MHz span)	CH2		20 ns
	CH3		10 ns
	CH4+		5 ns
Return Passband 5 – 42 MHz			
Return Gain		10 dB	9 dB
Return Flatness		±0.5 dB	±1 dB
2 nd Order Intermodulation (See Note 2)		-60 dBc	-55 dBc
3 rd Order Intermodulation (See Note 2)		-60 dBc	-55 dBc
Return Band Group Delay (1MHz span)	5 – 42 MHz		20 ns
	10 – 36 MHz		5 ns
General Specifications 54 – 1002 MHz, 5 – 42 MHz			
Impedance		75 Ohm	
Return Loss		20 dB	18 dB
Power to Fwd Input Isolation		80 dB	
Hum Modulation			-70 dB
RFI			100 dB
Surge Protection (IEEE C62.41-1991)	Fwd Input and Power Pack	6kV 3kA, 8/20us Combo Wave Location Category B3	
	Fwd Output	6kV 200A, 100KHz Ring Wave Location Category A3	
Operational Temperature Range		-40 to +50 °C	
Power Consumption		300 mA 12 Vdc	

Note:

1. Input levels at +10 dBmV/CH (79 NTSC), plus digital after 590 MHz at -6 dB.
2. 58 dBmV return output level on each of 13 and 19 MHz CW carriers.

Model Designations

Model	Description
EDA-AR01240	One output amplifier with 5 – 42 MHz active return path. Includes wall adaptor power supply for application North America
EDA-AR01241	One output amplifier with 5 – 42 MHz active return path. Includes wall adaptor power supply for application North America and power inserter module.

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