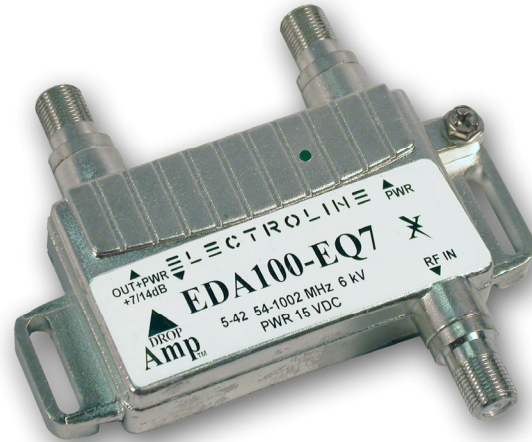




EDA100-EQ7 DROPamp 5-42 EDA100 Series



Description

Long cable drops result in excess level slope across the frequency band of operation. To correct these problems, operators must install both an equalizer and a drop amplifier. Yet, the installation of two separate units contributes to points of failure such as connections and wiring which reduce the reliability of services.

With its built-in forward equalizer, Electroline's EDA100-EQ7 is the drop amplifier for long cable drop installations of 100 feet and more. This one-port unit provides amplification while it balances signal levels throughout the downstream CATV frequency spectrum to correct signal attenuation and excess slope. This drop amplifier simplifies installations and makes them more reliable by eliminating the use of a stand-alone equalizer, reducing the amount of connections and wiring usually required.

What's more, the EDA100-EQ7 is particularly beneficial for today's growing digital service deployment. These new services require signals to be transmitted at lower levels than adjacent analog channels.

Only the EDA100-EQ7 combines the amplification and equalization that is necessary for consistent, reliable signals to achieve high-quality service delivery.

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

- 14.5 dB gain
- Fully compatible with all digital signal formats, forward and reverse
- SCTE-compliant connectors
- 6 kV surge protection
- Weather proof housing
- Powered locally or remotely
- Visible LED for unit power verification
- 3 dB noise figure



EDA100-EQ7 DROPamp 5-42 XSP Series

Specifications – Electrical

Forward Passband		54-1002 MHz
Return Passband		5-42 MHz
Forward Gain	54 MHz	7.0 ± 1.0 dB
	100 MHz	8.2 ± 1.0 dB
	500 MHz	11.0 ± 1.0 dB
	1002 MHz	14.5 ± 1.0 dB
Reverse Insertion Loss		1.3 dB max.
	Flatness	± 0.5 dB
Return Loss (all ports)		20 dB (typ.) 18 dB (min.)
Composite Second Order (CSO) (See Note 1)		-62 dBc
Composite Triple Beat (CTB) (See Note 1)		-74 dBc
Cross-modulation (XMOD) (See Note 1)		-75 dBc
Noise Figure		3 dB (typ.) , 4 dB (max.)
Forward Band Group Delay (3.58 MHz spa	Channel 2	20 ns (max.)
	Channel 3	10 ns (max.)
	Other channels	5 ns (max.)
Reverse Band Group Delay (1 MHz span)	5-42 MHz	20 ns (max.)
	10-36 MHz	5 ns (max.)
Hum Modulation		-70 dBc
RFI Isolation		100 dB
PWR to RF IN Isolation		80 dB typ.
DC Power Requirement		12 V - 18 V, 200 mA (max.)
Operational Temperature Range		-40°C to +60°C
Surge Protection (IEEE C62.41-1991)	in/out ports	Combination Wave 6 kV loc. B3
	wall adapter	Combination Wave 6 kV loc. B3

Notes:

1. Tested with 77 analog channels at input levels of +10 dBmV flat, and digital channels up to 1GHz at 6 dB below video carrier.
2. Specifications are subject to change without notice.

Model Designations

Model	Description
EDA100EQ7	One output amplifier with forward equalization, 5-42 MHz passive return path and includes power supply.
EDA101EQ7	One output amplifier with forward equalization, 5-42 MHz passive return path. Includes Power supply and power inserter.

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