



EDA-FT 100 Series Drop Amplifiers

All Port Down Configuration

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-FT100 series are the most compact versions in the Electroline offering.

Like all of Electroline's drop amplifiers, these compact one-port versions offer the same performance and standards compliance 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-FT100 series offer a low-noise figure (3 dB) and very flat (± 0.5 dB) frequency response.

The optional power inserter provides greater flexibility when installing the EDA-FT series and can result in configurations that may reduce the amount of coaxial cable required or offer a more discrete and aesthetic installation.

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-FT one-port drop amplifier is best used in homes where a 15-dB gain is sufficient to provide good signal levels to all the subscriber's devices (TVs, set-top boxes, recorders, etc.), even when this gain is

1-port Amplifier



shared through splitters that are required to service all the devices.

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 surge protection in each unit, thus setting the industry standard for quality and performance.

Features

- Fully compatible with all digital and analog signal formats, forward and reverse
- Proven quality with millions of EDA products deployed
- Noise factor of 3 dB
- 6 kV surge protection
- Weatherproof housing
- Sealed, 360° contact STCE-compliant F connectors
- Operating temperature range -40 to $+60^{\circ}\text{C}$



Specifications - Electrical

Specification	EDA-FT 100 1-port	
Forward Passband	54-1002 MHz	
Return Passband	5-42 MHz	
Forward Gain	15 dB	
Forward Flatness	± 0.5 dB	
Reverse Insertion Loss	1.3 dB max.	
Reverse Flatness	± 0.5 dB	
Return Loss (all ports)	20 dB (typ.); 18 dB (min.)	
Composite Second Order (CSO) (See Note)	-62 dBc	
Composite Triple Beat (CTB) (See Note)	-74 dBc	
Cross-modulation (XMOD) (See Note)	-75 dBc	
Noise Figure	3 dB (typ.) , 4 dB (max.)	
Forward Band Group Delay (3.58 MHz span) :	Channel 2 Channel 3 Other channels	20 ns (max.) 10 ns (max.) 5 ns (max.)
Reverse Band Group Delay (1 MHz span):	5-42 MHz 10-36 MHz	20 ns (max.) 5 ns (max.)
Hum Modulation		-70 dBc
RFI Isolation		100 dB
PWR to RF IN Isolation		80 dB typ.
Port-Port Isolation :	7-42 MHz 54-1002 MHz	N/A N/A
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 Power Adapter	Combination Wave 6 kV loc. B3 Combination Wave 6 kV loc. B3

Specifications - Mechanical

Housing	Zinc alloy casting, weatherproof, tin plated
Mounting slots spacing (for #8 screws)	3.50" (88.9 mm)
Dimensions (including connectors)	3.87" X 2.60" X 0.82" (98.3 mm X 66.0 mm X 20.8 mm)
Weight:	0.34 lb (0.153 kg)
F connectors	SCTE IPS-SP-400 compliant, sealed, 360° contact, 0.44 lb (200 g) contact retention force (min.)

- Note:**
- 1) Tested with 77 channels at input levels of +10 dBmV (flat), and 200 MHz of broadband noise from 590 to 790 MHz at 6 dB below video carrier.
 - 2) Specifications are subject to change without notice.

Model Designations

Model	Description
EDA-FT100A	Package includes one output amplifier with 5-42 MHz passive return path and power supply.
EDA-FT101A	Package includes one output amplifier with 5-42 MHz passive return path and power supply and Power inserter.

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