

Two-Way Line Extender Amplifier

LPA-860-36G



The LPA-860-36G is a two-way CATV line extender amplifier designed for outdoor applications. The amplifier has a forward bandwidth of 53-860 MHz and a reverse bandwidth of 5-42 MHz. The LPA-860-36G contains GaAs hybrid modules ensuring high forward output levels with very low distortion.

The LPA-860-36G's rugged aluminum housing is heavily ribbed for heat dissipation. -20 dB RF test points at input and output for both the forward and reverse paths employ directional coupler circuitry for accuracy. The amplifier is equipped with an auto-ranging 35-90 VAC power supply, surge protection and has 15 amp power passing capacity.

○ Features & Benefits

- 860 MHz Forward Bandwidth, 5-42 MHz Active Reverse Path
- GaAs Hybrid Modules Provide High Output Levels with Low Distortion
- Forward Pad and Equalizer Sockets at Input and Mid Stage
- Sockets for Reverse In/Out Padding and Output Equalization
- Surge Protection
- External Accessible - 20 dB Test Points

○ Specifications

RF

Frequency Range	Forward Amp: 53-860 MHz Reverse Amp: 5-42 MHz
Channel Loading	Forward Amp: 79 NTSC 310 MHz Digital Reverse Amp: 4 Channels
Flatness Forward & Reverse Amp:	± 0.5 dB
Gain	Forward Amp: 36 dB ^(b) Reverse Amp: 18.5 dB
Noise Figure	Forward Amp: 7 dB Reverse Amp: 6 dB
Output Level - Operating	Forward Amp: 46 dB Reverse Amp: 40 dB
Operating Slope:	Forward Amp: 10 dB ^(a) Reverse Amp: 0 dB
Composite Triple Beat (CTB)	Forward Amp: -80 dB Reverse Amp: -87 dB
Composite Second Order (CSO)	Forward Amp: -72 dB Reverse Amp: -85 dB

Hum Modulation

Forward Amp:	>70 dB
Reverse Amp:	>60 dB
Type Of Hybrids:	GaAs
Impedance - All Ports:	75 dB
Return Loss - All Ports:	-16 dB

Power Requirements

Voltage	Current @ 40 V: 0.70 A Current @ 60 V: 0.45 A Current @ 90 V: 0.30 A Frequency: 60 Hz
Temperature Range	-40° to 140° F -40° to 60° C
AC Through Current - Maximum:	15 A

Mechanical

Dimensions (LxWxD):	8.125 x 12.3 x 5.5 in. 206 x 312 x 140 cm
Weight:	10.5 lbs. 4.7 kg

Notes

- (a) Slope measured from 53 MHz to 860 MHz.
(b) Reduce gain for each EQ used

○ Ordering Information

Model	Stock No.	Description
LPA-860-36G	5818	Line Extender GaAs 36 dB Gain 860 MHz Active 5-42 MHz Return
LPA-860EQ-XX	5819-XX	Plug-in Fixed Equalizer Values 2-26 dB (in 2 dB steps)
LPA-860IEQ-XX	5820-XX	Plug-in Inverse Fixed Equalizer Values 3-15 dB (in 3 dB Steps)
LPA-860PD-XX	5821-XX	Plug-in Fixed Attenuator Values 0-16 dB
LPA-860REQ-XX	5822-XX	Plug-in Reverse Fixed Equalizer Values 2-20 dB (in 2 dB Steps)
LPA-860VEQ-10	5823	Plug-in Variable Equalizer 0-10 dB
LPA-860VEQ-20	5824	Plug-in Variable Equalizer 10 -20 dB
LPA-860VPD-8	5825	Plug-in Variable Attenuator 0 - 8 dB

XX Specify Value