

AMP Bidirectional Amplifier



Product Summary

AMP8602 outdoor trunk bidirectional amplifier is mainly used for bidirectional trunk transmission of CATV television image signal, digital TV signal, and telephone voice signals and data (or compressed data) signal. Advanced and mature circuits, scientific and reasonable process structures and high quality materials, ensure the excellent performance. It is the first choice equipment to build large or middle-sized CATV bidirectional transmission network.

Performance Characteristics

860MHz bandwidth design.

Forward path: the pre-stage adopts GaAs MMIC, output stage adopts the newest imported high index power doubles module, achieve high output level, low distortion and high SNR.

It is more convenient to debug because of the plug-in duplex filter, equalizer, attenuator, output tap and the scientific and reasonable on-line detection ports.

The equipment can long time continuous work steadily under outdoor bad environmental condition.

Because of the aluminum waterproof housing, high reliability switching power supply and strict lightning protection system.

TECHNICAL PARAMETER

Item	Unit	Technical parameter
Forward Path		
Frequency Range	MHz	45 ~ 862/ 1003 (optional)
Rated again	dB	38 (the pre-stage adopts high gain MMIC)
Rated input level	dB μ	V70
Rated output level	dB μ V	108 (EQ6dB)
Flatness in ban	dB	± 0.75
Noise Figure	dB	≤ 10
Return Loss	dB	≥ 16
C/CTB	dB	≥ 66
C/CSO	dB	≥ 64
Group delay	ns	10 (112.25 MHz/116.68 MHz)
Signal to hum ratio	%	< 2
Gain stability	dB	-1.0 ~ + 1.0
Return Path		
Frequency Range	MHz	5 ~ 65
Rated again	dB	24(Different modules, different gain. Can be specified by the user.)
Maximum output level	dB μ V	110
Fatness in band	dB	$\leq \pm 0.75$
Noise figure	dB	≤ 8
Return loss	dB	≥ 16
Signal to hum ratio	%	< 2
General Performance		
Characteristic impedance	Ω	75
Power supply voltage	V	A:AC (150~250)V; B: AC (35~90)V
Impulse withstand voltage	kV	> 5 (10/700 μ s)
Power consumption	W	≤ 20
Dimension	mm	220 (L)* 205 (W)* 65(H)