AA 870 Apartment Amplifier

Description

The AA870 is the amplifier for video, data telephony, VOD, VOIP multiple service in CATV network. The bandwidth is up to 870 MHz and is designed for RF distribution systems such as those in Cable Television Apartments, Hotels, Hospitals, Community and other applications whereof a high quality low noise figure amplifier is necessary to amplify the signals in both the forward and return paths, amplifier housed in an aluminum die-cast housing having superior heat dissipation characteristics.

Specification

Parameter	Units	Spec.	Note
Forward			
RF Section Performance			
RF bandwidth	MHz	54/70/85~870	
Return Loss	dB	>14	
Flatness	dB	+/-1.0	
Gain Level	dB	32 dB Max	
Test point	dB	-20+/-1	
Output port	inch	5/8	
Noise Figure	dB	7 dB@50MHz, 8 dB@750 MHz	
Slope	dB	2-18 dB EQ (2 dB step)	
Attenuator	dB	2-18 dB Pad (2 dB step)	
Impedance	Ω	75	
RF Section Distortion Performance			
Output levels	dBmV	43 dBmV (Max)	
CSO	dB	>65	
CTB	dB	>67	
XMOD	dB	>69	

77 NTSC CW ch + 300 MHz digital.

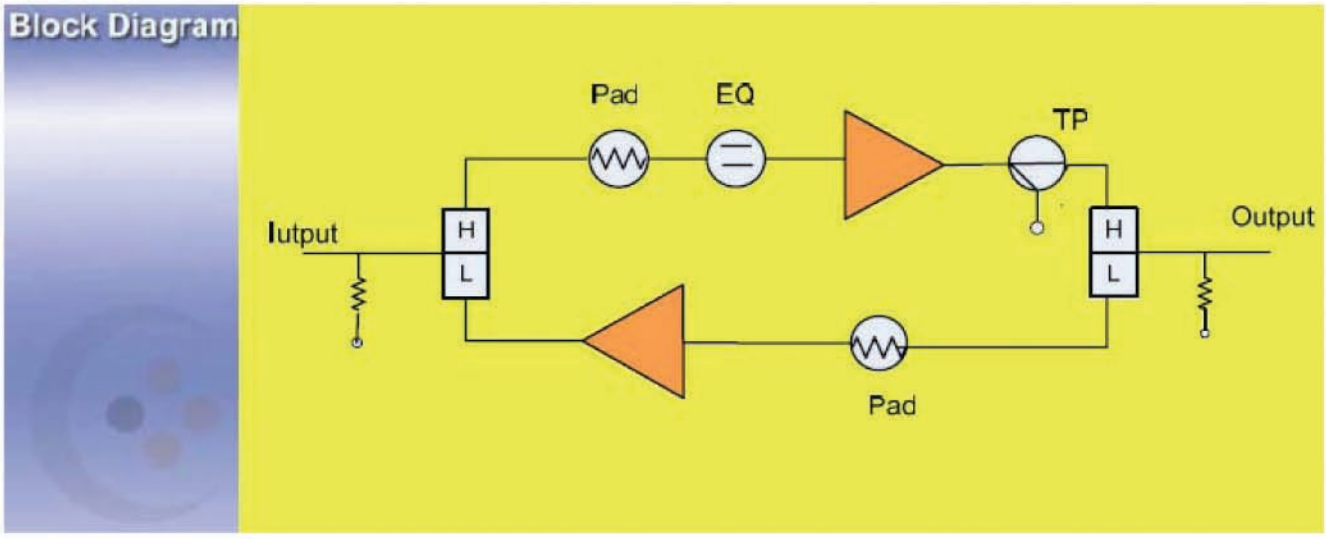
Parameter	Units	Spec.	Note
Reverse			
RF Performance			
RF bandwidth	MHz	5-42/55/65	
Return Loss	dB	>14	
Flatness	dB	+/-1.0	
Test point	dB	-20+/-1	
Gain level	dB	22	
Noise Figure	dB	10	
Attenuator	dB	2-18 dB Pad (2 dB step)	

RF Link Performance			
Output levels	dBmV	40dBmV	
CSO	dB	82	
CTB	dB	77	
XMOD	dB	74	

Electrical, Environmental, Mechanical Specification

General Specifications		
Voltage	VAC	35 VAC TO 70 VAC, Or 110 VAC to 265 VAC
DC current	mA	300 mA (24V)
Current	A	10 A (Max)
Power consumption	W	10.5 W (Max)
Storage Temperature	°C	-50 °C to 70 °C
Operating Temperature	°C	-40 °C to 60 °C
Dimensions	mm	212 mm * 180mm * 70mm
Weight	Kg	2

Block Diagram



Features

- Dual way amplifier
- 870MHz bandwidth
- 5-42 MHz / 5-70MHz / 5-85MHz return bandwidth
- EQ & Pad for easy installation
- Power-doubling amplifier IC for high power output
- 10 Ampere Power Passing

Ordering information

AA870 - x

Subsplit:
4 = 42/54 (MHz)
5 = 55/70 (MHz)
6 = 65/85 (MHz)

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