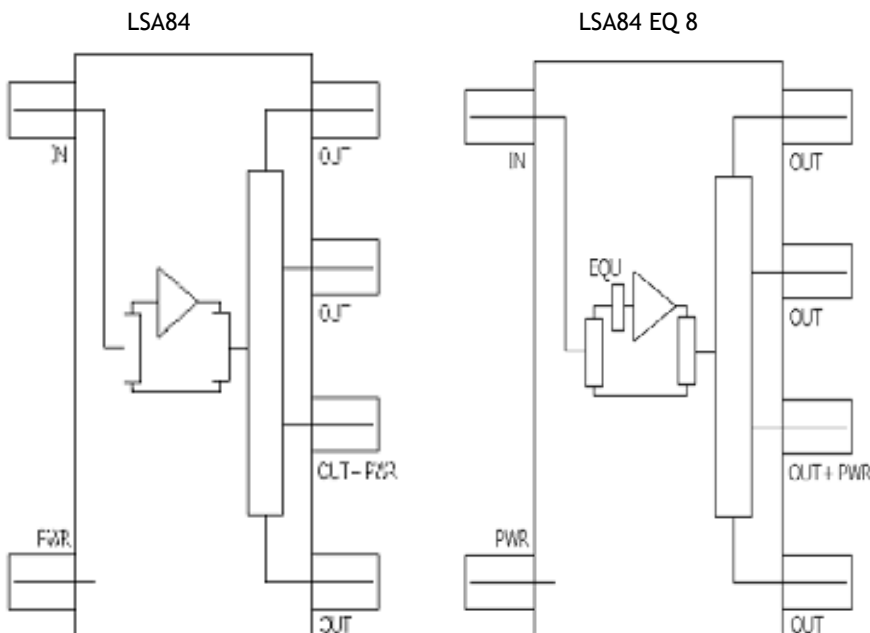


TWO-WAY PASSIVE RETURN SUBSCRIBER AMPLIFIERS (MoCA Enabled Option)

Reliable two-way passive amplifiers with outstanding mechanical and electrical performances. Mini versions, one or four outputs with optional 8 dB equalization and/or MoCA ready available.

Successful operators focus on the drop. *Lindsay Broadband* helps by reaching deep into the uncontrolled residential environment with its TOUGH and high-performing technology. These 1 GHz, return passive drop subscriber amplifiers feature 15 dB forward gain with 1 output (8 dB gain with 4 outputs in LSA84 with 8 dB equalization option) excellent return, insertion loss, low distortions and incorporate the Multimedia Over Coax Alliance (MoCA) standard for home entertainment networking.

BLOCK DIAGRAM



LSA151
MLSA151 (MoCA enabled)
LSA151-EQ8
LSA84 (MoCA enabled)
LSA84-EQ8



FEATURES

- Compact housing
- Miniature option (MLSA151 only)
- 15 PSI weather-tight seal
- Operating temperature: -40 to +60 °C (-40°F to +140°F)
- 6kV surge withstand capability
- 360-degree F Pin seizure
- 15 dB gain 1 output (8 dB with LSA84)
- Insertion loss: 0.5 dB (7.5 dB with LSA84)
- Return loss: 20 dB
- 1 GHz spectrum, with optional splits
- -100 dB RFI shielding
- Powered by 120 or 220 voltage AC wall adapter
- Power LED indicator
- Optional UPS Available
- Optional design to aid throughput of MoCA signal
- Diplex Filters available in 42/54, 65/85 and 85/105MHz
- Optional power insertion on output port



Part# CDA-PI

SPECIFICATIONS - LSA Series (MoCA enabled)

LSA151/MLSA151/LSA151-EQ8

LSA 84/LSA84-EQ8

Forward Path 54-1000 MHz

		Typical	Worst	Typical	Worst
Gain	LSA (M)	15dB	14dB	8dB	7dB
	LSA-EQ8 (Forward Path 54/1000MHz)	7.5/14.5dB	7.0/14.0dB	0.5/7.5dB	0.0/7.0dB
Flatness (Note 1)		± 0.7dB	± 1dB	± 0.7dB	± 1dB
Port-to-Port Isolation					
	LSA 84	-	-	-27dB	-25dB
	LSA84-EQ8	-	-	-	-25dB
Cross Modulation (Note 2)		-83dBc	-75dBc	-80dBc	-75dBc
Composite Triple Beat (Note 2)		-81dBc	-73dBc	-77dBc	-73dBc
Composite Second Order (Note 2)		-72dBc	-62dBc	-68dBc	-62dBc
Noise Figure (Note 3)		2.5dB	4dB	2.8dB	4dB
CNR	LSA(M) only (Note 4)	-	65dB	-	65dB
Group Delay-Span 3.58 MHz					
	CH 2	-	20ns	-	20ns
	CH 3	-	10ns	-	10ns
	CH 5 >	-	5ns	-	5ns

Return Path 5-42 MHz

Insertion Loss		-0.5dB	-1dB	-7.5dB	-8.0dB
Flatness		± 0.3dB	± 0.5dB	± 0.3dB	± 0.5dB
Group Delay - Span 1 MHz	5-42 MHz	-	20ns	-	20ns
	10-36 MHz	-	3ns	-	3ns

General Specifications 5-42MHz, 54-1000MHz

Isolation (MLSA - MoCA enabled only)					
MoCA Band 1125-1525MHz	Downstream		16dB min		26dB min
	Upstream		36dB min		36dB min
	Output-Output		-		30dB max
HFC Band	Output-Output		-		25dB min
Impedance			75 Ohm		75 Ohm
Return Loss (all ports)		20dB	18dB	20dB	18dB
Hum Modulation (Note 5)		-85dB	-75dB	-85dB	-75dB
RF Shielding (5-1000MHz)		-	-100dB	-	-100dB
Surge Withstand Capability					
	Fwd IN & Pwr Pack	6kV 3kA, 8/20us Combo Wave IEEE 587 (C62.41-1991), Category B3 Standard			
	Fwd OUT	6kV 200A, 0.5-1000kHz, Ring Wave IEEE 587 (C62.41-1991), Category A3 Standard			
Operating Temperature		-40°C to +60°C (-40°F to 140°F)			
Power Consumption		150mA (15Vdc)			
Waterproof		All F ports withstand 15 PSI			

Notes

(1) Flatness deviation evaluated with 4 or 8 dB reference cable added to the amplifier response (EQ8's only).

(2) Input levels at +10dBmV/Ch (79 NTSC), plus digital after 550 MHz at 6dB set-back.

(3) Noise figure doesn't include equalizer loss (EQ8's only).

(4) 10dBmV input ref for FWD CNR.

(5) Average of performance at 5,15,30,42,54,120,200,300,450,550,750,870,1000MHz. (EQ8's only).

** Specifications subject to change without notice

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