

MDU DISTRIBUTION AMPLIFIER

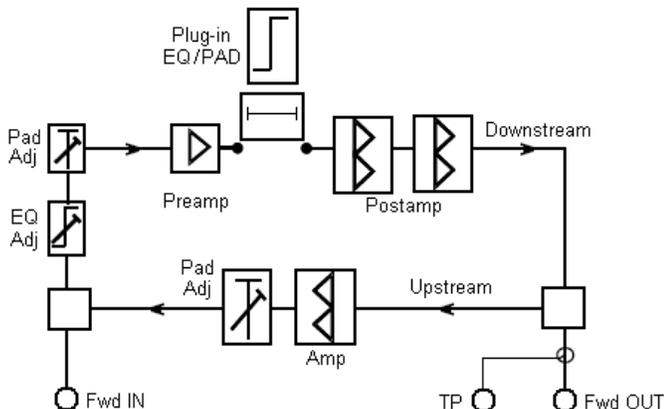
Lindsay's multiple dwelling unit broadband distribution amplifier is a full featured two-way 1GHz indoor station capable of 44dBmV output with superior characteristics and low noise.

Model LHA35RM is a *TOUGH* indoor MDU amplifier specifically designed for broadband distribution systems in apartment buildings, hotels, schools, hospitals and similar facilities requiring RF amplification. Designed to mount directly to a wall with increased heat dissipation properties and low power consumption this amplifier runs cool and reduces operational costs. Flexible two-way duplex filter options and the latest GaAs-Fet technology provide superior distortion performance and low noise to 1GHz.

LHA35RM



BLOCK DIAGRAM



FEATURES

- Aluminum die-cast, wall-mountable housing
- Designed for superior heat dissipation
- Rated ingress protection (IP)54, against dust and water
- Temperature cycled -10°C to +55°C (+14°F to +131°F)
- GaAs-Fet push-pull for high output, low distortions
- 35 dB gain in forward, 18dB reverse bandwidth
- Input variable equalizer, plug-in inter-stage equalization
- Forward and reverse, 20 dB gain controls
- Surge protection of 6kV on all ports
- Designed for -100dB EMI isolation
- Self-powered, available in 117 and 230 voltage AC
- Duplex Filters available in 42/54, 65/85 and 85/105MHz

SPECIFICATIONS LHA35RM

Typical, for T = 20degC, Zin = Zout = 75 ohms

Parameter	Notes	Forward GaAs-FET Push Pull	Reverse	Units
Bandwidth		54 to 1000	5 to 42	MHz
Min Full Gain		35	18	dB
Flatness		+/-1	+/-1	"
Return Loss, IN / OUT		-16	-16	"
RF Test Points		-30 (Out)		"
Gain Control, variable		0-20 (input)	0-20 (output)	"
Slope Control, variable		0-20 (input)	---	dB cable
Fixed Equalizers		0, to 26 in 2dB steps (midstage)	---	"
Forward Distortions, 79 channels:	42dBmV Flat Output			
CTB	on ch78	-62	---	dBc
CSO	on ch78	-66	---	"
Xmod	on ch2	-60	---	"
Forward Distortions, 79 channels 12dB interstage slope	(54-1000MHz),ref 44dBmV			
CTB	on ch78	-65	---	dBc
CSO	on ch78	-72	---	"
Xmod	on ch2	-63	---	"
Reverse Distortions, 4 ch	52dBmV flat output			
3rd on T10	T8+T9-T7	---	-68	dBc
2nd on T9	T7+12MHz	---	-65	"
Xmod on T10	T7, T8, T9, T10	---	-64	"
Noise Figure		7	7	dB
Fwd Group Delay:	55.25-58.83MHz	max.38	---	nsec
Rev Group Delay:	41-42MHz	---	max.35	nsec
Hum Modulation		-70		dB
RFI Isolation	5-1000MHz	-100		"
Surge Withstand	IN / OUT	IEEEC62.41 Cat.A3(6kV,200A)		
Powering		Mains, 117		Vac
Power Consumption		8.0		Watts
Temperature		-10 to +55		degC
Enclosure		IP54 Category, Diecast Aluminium		
Weight		3.8 / 1,7		lbs / kgs
Dimensions		19,5 * 13,6 * 7,5 cm / 7-5/8" * 5-3/8" * 3" inches		

Notes for Specifications:

1. Model GE XX equalizers available in 2dB steps from 0 to 26dB at 750, 860 or 1000MHz
2. Digital output levels are lower
3. Specifications are typical
4. Tolerance on station gain is ± 2.0 dB
5. All specifications are subject to change



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