

## 1.22 GHz MULTIMEDIA HOME PHONE PORT SUBSCRIBER AMPLIFIERS (MOCA ENABLED OPTION)

LRSA004SM (MOCA ENABLED)  
 LRSA008SM (MOCA ENABLED)

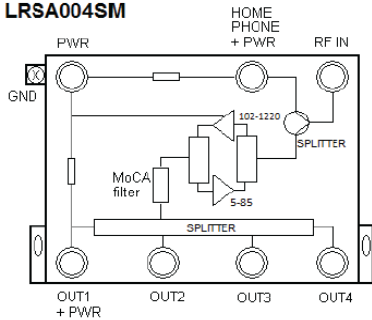
Provide uninterrupted lifeline service with this unity gain, forward/reverse multimedia amplifier that incorporates a stand-alone passive home phone port with MoCA enabled options.

Power outages can take down vital voice and data signals. The Lindsay Broadband reverse-active subscriber amplifier (LRSA) avoids that outcome by incorporating a completely standalone passive home phone port to route all voice and data signals. Available in five- or nine-port design. The compact, environmentally hardened amplifier features upstream and downstream unity gain and power insertion options on home phone and video ports. Preassembled network interface unit (NIU) and uninterruptible power supply (UPS) options also available.

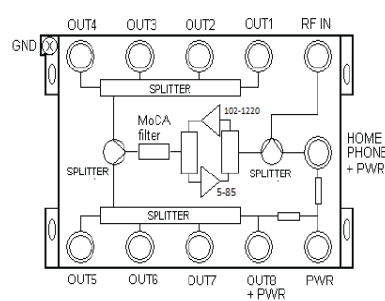


## BLOCK DIAGRAM

LRSA004SM



LRSA008SM



*Optional power inserter part  
 # 15-100*

## FEATURES

- Industry's smallest footprint
- Corrosion-resistant epoxy-coated 360 aluminum
- 15 PSI pressure tested
- Passive home phone port
- Five or Nine RF outputs
- Upstream and downstream unity gain
- SCTE-compliant F-Port
- SCTE-compliant surge withstand
- SS ground and mounting hardware
- Power pack short-circuit protection, UL listed
- MoCA Enabled Options
- Powered by 120 or 220 voltage AC wall adapter
- Power LED Indicator
- Optional preassembled NIU's
- Diplex Filters available in 42/54 and 85/102 MHz
- Power insertion available on phone, video ports

## SPECIFICATIONS

Unity Forward & Reverse Gain  
Multimedia Amplifiers  
Splitter Bypass, MoCA Ready

Parameter		4 RF Output + 1 Home Phone		8 RF Output + 1 Home Phone		Unit	
		LRSA004SM		LRSA008SM			
		Typical	Worst	Typical	Worst		
<b>Forward Path 54-1220 MHz or 102-1220 MHz</b>							
Gain (active output ports)	(54/102-1000 MHz)	0		0		dB	
	(1000-1220 MHz)	0	-1	0	-1		
Gain Tolerance	(54/102-1220 MHz)	± 0.5		± 0.5			
Flatness	(54/102-1000 MHz)	± 0.5	± 0.75	± 0.5	± 0.75	dB	
	(1000-1220 MHz)	± 0.75	± 1.0	± 0.75	± 1.0		
Maximum Input Level	(54/102-1220 MHz)	14		14		dBmV	
Insertion Loss (passive port)	< 1000 MHz	3.5 ± 0.5		3.5 ± 0.5		dB	
	1000 - 1220 MHz	5		5			
CTB		-75	-70	-75	-70	dBc	
CSO		-65	-62	-65	-62		
Noise Figure	(54/102-1220 MHz)	5		5		dB	
Group Delay	any channel	20		20		ns	
<b>Return Path 5-42MHz or 5-85 MHz</b>							
Gain (active output ports)	(5-42/85 MHz)	0		0		dB	
Gain Tolerance	(5-42/85 MHz)	± 1		± 1			
Insertion Loss (passive port)		3.5 ± 0.5		3.5 ± 0.5			
Flatness	(5-42/85 MHz)	± 0.5	± 0.75	± 0.5	± 0.75	dBc	
DSO		-70	-65	-70	-65		
DTO		-60	-57	-60	-57		
Noise Figure	(5-42/85 MHz)	5		5		dB	
Group Delay	(5-42/85 MHz)	20		20		ns	
<b>General Specifications 5-42/85 MHz, 54/102-1220 MHz</b>							
Impedance		75				Ohm	
Return Loss	(5-42/85 & 54/102-1220)	20	18	20	18	dB	
	(5-42/85 & 54/102-1220)	20	18	20	18		
Isolation	(5-42/85 & 54/102-1000)	25	24	25	24	dB	
	1000 - 1220 MHz	24	22	24	22		
	MoCA band (1275 - 1675 MHz)	Output - Output	30		42		dB
		Downstream	26		26		
		Upstream	36		36		
Hum Modulation	(5-42/85 / 54/102-1220)	-70		-70		dBc	
Power Supply Noise		-50/-80/-100				dBm	
Unterminated Oscillation		NONE					
RFI	(54/102-1220)	-100				dBc	
CE Compliance	ROHS						
	WEEE						
	EMC						
	LVD						
Surge Withstand Capability		6kV 3kA, 8/20us Combo Wave IEEE 587 (C62.41-1991) Category B3 Standard					
		6kV 200A, 0.5-100KHz, Ring Wave IEEE 587 (C62.41-1991) Category A3 Standard					
Operating Temperature		-40 to +60				°C	
DC Power Consumption		330		370		mA	
Port Diode Protection		yes					
Waterproof		Withstand 15 psi for 1 minute					

Note:

- (1) 14dBmV/ch flat input level (75 NTSC) + digital at 6dB setback (after 550 MHz)
- (2) As per SCTE115, 13&19MHz channels at 55 dBmV/ch output, w/c of DSO at 6/32MHz and DTO at 7/25MHz
- (3) Max for (DC-500kHz) / (500kHz-1.5MHz) / (1.5MHz-1.2GHz). Measure at RF OUT while using power inserter
- (4) No oscillations should occur with IN and OUT ports terminated and unterminated
- (5) Noise Figure is specified with splitter losses excluded.

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