



# RDA-L1,L2 & L4 Drop Amplifiers

Passive Return 1-Way, 2-Way & 4-Way



Complete With Power Supply

The RMS RDA-L1, RDA-L2 & RDA-L4 series of drop amplifiers are ideally suited for long cable drops or MDU outlets. With their integrated diplex filters they are also ideal for addressable systems. They have neoprene sealed F ports and a raised housing to dissipate any heat. Also meet SCTE requirements for A3 C62.411 surge protection.

## Features:

- Bandwidth 5-42MHz/54-1000MHz
- Gain RDA-L1=14dB, RDA-L2=10dB & RDA-L4=7dB
- RFI Shielding >-120dB
- Micro-strip designed PCB for consistency of specifications and superior total bandwidth characteristics
- Premium ferrites, resistors and capacitors
- Laminated ID label that will not fade
- Zinc housing that is chromated and plated for maximum corrosion resistance
- Precision neoprene sealed "F" ports that are SCTE compliant.
- Low distortion with high level signals
- 6KV Surge protected - A3 C62.411
- Local or remote powering with RDA-PI
- Integrated heavy duty grounding screw
- Modified 360 degree contacts that offers excellent contact between coax and F61. It also has an excellent wiping action
- Concave solder back design assures 100% sealing of back plate to the housing and prevents pinholes
- Excellent specifications including noise figure typically of less than 3.5dB
- Active return unit available RDA-L1R 100% QC at our factory
- LED Power Indicator
- CE approved

RMS Communications Inc

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# RDA-L1,L2 & L4 Drop Amplifiers

Passive Return 1-Way, 2-Way & 4-Way

## RMS Mini Drop Amps Specifications

RMS Model	RDA-L4	RDA-L2	RDA-L1	RDA-PI
Number of Output Ports	4	2	1	/
Number of Data Ports	4	2	1	/
Number of Power Ports	2	2	2	1
Surge Withstand	6KV/200A, 0.5us-100kHz ring wave per IEEE587 C62.41-1991			
Rated Operating Temperature	-40~+70?	-40~+70?	-40~+70?	-40~+70?
<b>FORWARD PATH SPECIFICATIONS</b>				
Reference Input Level (dBm)	-30	-30	-30	/
Pass Band (MHz)	54-1000	54-1000	54-1000	5 -1000
Gain (Input to Output)(dB)	7±1.2	10±1.2	14±1.2	-0.8
Flatness (dB)	±1	±1	±1	±0.5
Return Loss (dB)	18	18	18	20
Noise Figure (dB)	<4.5	<4.5	<4.5	/
Channel Loading	79 analog			/
Reference Input Level (dBmV)	5	5	5	/
Composite Triple Beat (dBc) ?Note1	75	75	75	/
Composite Second Order (dBc) ?Note1	60	60	60	/
Cross Modulation (dBc)	70	70	70	/
Hum Modulation (dBc)	75	75	75	/
<b>Isolation</b>				
Input to DC Port (dB)	80	80	80	80
Output to Output (dB)	20	20	/	/
<b>Group Delay (3.58 MHz span)</b>				
Channel 2 (ns)	20	20	20	/
Channel 3 (ns)	10	10	10	/
Other Channels (ns)	5	5	5	/
RFI Shielding (dB)	130	130	130	130
Max operating output (dBmV) -minus internal splitter loss	25	25	25	/
<b>REVERSE PATH SPECIFICATIONS</b>				
Reference Input Level (dBm)	-30	-30	-30	/
Pass Band (MHz)	5-42	5-42	5-42	/
Return Path Insertion Loss (dB)	(-7.4±1)	(-4±1)	(-0.8±1)	/
Flatness (dB)	±0.5	±0.5	±0.5	/
Return Loss (dB)	18	18	18	/
<b>Group Delay (1MHz span)</b>				
5~42 MHz (ns)	20	20	20	/
10 ~ 36 MHz (ns)	5	5	5	/
Inter-Modulation (dB) ?Note2	105	105	/	/
Second Order (dBc) ?Note3	110	110	/	/
Housing Dimensions (L*W*H) (mm)	99x71.5x20.5	99x71.5x20.5	99x71.5x20.5	60x50x16
Weight (g) ±5g	124	118.5	114.5	39.3
Power (DC) 10~24V	110mA±10mA	110mA±10mA	110mA±10mA	/

Note1? TEST CH @ CH2?CH4?CH5?CH13?CH42?CH61?CH78?CH93 AVG.

Note2? 2TONE TEST CW: 25MHz, 31MHz +55dBmV

Note3? CW: 27MHz +55dBmV

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