



# RDA-2/RDA-4 Drop Amps

1GHz 2-Way & 4-Way Drop Amps (Passive Return)



**Comes Complete With Power Supply**

The RMS RDA-2 and RDA-4 are our standard 2-Way @ 4-Way drop amps with a passive return. They are in a very rugged zinc housing and the port designation is clearly die cast into the housing.

## Features:

- Forward Bandwidth 54MHz -1000MHz
- Return bandwidth 5MHz - 40MHz (Passive)
- RFI Shielding >-100dB
- Digital ready
- Excellent port to port isolation to prevent damage to your digital signals caused by micro reflections
- Double sided through hole plated FR4-G10 printed circuit board
- Multiple grounding points from PCB to housing for superior total bandwidth characteristics
- High reliability Monolithic IC (MMIC)
- Extensive use of SMD components
- Dual powering options
- AC adapter included
- Optional power inserter (RDA-P1)
- UL & CSA approved power supply
- Nickel plated heavy-duty zinc alloy die cast housing
- Tongue and groove back plate with neoprene and wire mesh gaskets for superior RFI and weather proof protection
- Precision machined F ports
- Flat 360 degree "F" ports assures complete sealing of grommets
- Power, input, output and "F" port identification is die cast into housing
- Universal type mounting holes for easy positioning & installation
- Heavy duty grounding screw
- Each unit is individually packaged
- CE approved

Available through

**Multicom, Inc.**

1076 Florida Central Parkway, Longwood, FL 32738

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Standard Series

RDA-2/RDA-4 Drop Amps



# RDA-2/RDA-4 Drop Amps

1GHz 2-Way & 4- Way Drop Amps (Passive Return)

## Specifications RMS Standard 2/4-Way Amps

Parameter		RDA-2	RDA-4
Forward Passband		54 - 1GHz	54 - 1GHz
Reverse Passband		5 - 40MHz	5 - 40MHz
<b>Forward Specifications</b>			
Gain Incl Internal Splitter Loss		11 +/- 1.5 dB	8 +/- 1.5 dB
Maximum Operating Output (1)		25dBmV	25dBmV
Noise Figure		4 dB Max	4 dB Max
Return Loss (Input) (dB Min)	5 - 40MHz	16	18
	54 - 450MHz	16	18
	450 - 750MHz	16	16
	750 - 1GHz	16	16
Return Loss (Output) (dB Min)	5 - 40MHz	20	20
	54 - 450MHz	18	20
	450 - 750MHz	18	20
	750 - 1GHz	18	18
Output Flatness		1dB	1dB
Port/Port Isolation (Min dB)	54 -750MHz	25	25
	750 - 1GHz	22	22
Group Delay		<30nSec/3.58MHz - CH 2-5 <5nSec/3.58 - CH5 & >	<30nSec/3.58MHz - CH 2-5 <5nSec/3.58 - CH5 & >
<b>Distortions</b>			
Composite Triple Beat (-dBc)		73	73
Composite Second Order (-dBc)		62	62
Cross Modulation (-dBc)		75	75
Hum Modulation (-dBc)		75	75
<b>Reverse</b>			
Maximum Operating Output (1)		60 dBmV	60 dBmV
Return Loss		16 dB	16 dB
Output Flatness		1dB	1 dB
Passive Path Loss		-3.5 dB +/-0.5 dB	-7.7 dB +/- 0.5 dB
Port/Port Isolation	5 - 40MHz	22	22
Group Delay		<20nSec/a.5MHz@5MHz <30nsec/1.5MHz@40MHz	<20nSec/a.5MHz@5MHz <30nsec/1.5MHz@40MHz
<b>Distortions</b>			
Composite Triple Beat (-dBc)		73	73
Composite Second Order (-dBc)		70	70
Cross Modulation (-dBc)		75	75
Hum Modulation (-dBc)		75	75
<b>Forward and Reverse</b>			
RFI Shielding		-100dB	-100dB
Surge Withstand Capability	IEEE 587 Category A3 standard (6KV) for all ports, including transformer and power inserter		
Operating Temperature Range		-40C to +60C	-40C to +60C
Transformer (UL/CSA Approved)	120VAC, Input @ 12VDC 300ma Output		
Dimensions	1.125"H X 3.0"W X 4.5"L (28.57mmH X 76.2mmW X 114.3mmL)		

(1) Minus Internal Splitter Loss

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