



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

RMS Communications Inc

11516 Downs Road, Pineville, North Carolina. 28134 USA

Email: sales@rmscommunications.net - Phone (704) 588-4008 Page 39



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Specifications RMS Standard 2/4-Way Amps

| Parameter | | RDA-2 | RDA-4 |
|----------------------------------|---|--------------------------|--------------------------|
| Forward Passband | | 54 - 1GHz | 54 - 1GHz |
| Reverse Passband | | 5 - 40MHz | 5 - 40MHz |
| Forward Specifications | | | |
| 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 | <30nSec/3.58MHz - CH 2-5 |
| | | <5nSec/3.58 - CH5 & > | <5nSec/3.58 - CH5 & > |
| Distortions | | | |
| Composite Triple Beat (-dBc) | | 73 | 73 |
| Composite Second Order (-dBc) | | 62 | 62 |
| Cross Modulation (-dBc) | | 75 | 75 |
| Hum Modulation (-dBc) | | 75 | 75 |
| Reverse | | | |
| Maximun 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 | <20nSec/a.5MHz@5MHz |
| | | <30nsec/1.5MHz@40MHz | <30nsec/1.5MHz@40MHz |
| Distortions | | | |
| Composite Triple Beat (-dBc) | | 73 | 73 |
| Composite Second Order (-dBc) | | 70 | 70 |
| Cross Modulation (-dBc) | | 75 | 75 |
| Hum Modulation (-dBc) | | 75 | 75 |
| Forward and Reverse | | | |
| 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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