

## DLA200

### Dual Modular, 'Hot-swap' Line Amplifier with optional 1+1 Redundancy.







The 19 inch 1U rack mounted **DLA200** chassis unit is designed to accept two Line Amplifier modules. Modules can be inserted/ replaced in the **DLA200** unit from the rear without the need to remove power or disturb the other channel in any way.

The **DLA200** chassis units are mains powered (redundant power supplies as standard) and are constructed of high grade components to give the ultimate Gain flatness and stability performance.

The **DLA200** unit is available with optional integral 1+1 redundancy switching and control for use when two identical modules are used.

#### *Peak Features*

-  High gain flatness and stability performance.
-  Amplifier low current alarm monitoring
-  Redundant Power Supplies with dual mains input
-  Integral 1+1 Redundancy option for module switching



## DLA200 Chassis - Typical Specification

### Mechanical

Width	19" standard rack mount
Height	1U (1.75")
Depth	400mm (15.7"), plus connectors
Construction	Aluminium chassis
Weight	4.5kgs (10lbs)

### Environmental

Operating temp.	0°C to +50°C
EMC	EN 55022 part B & EN 50082-1
Safety	EN 60950

### Power Supply (2off in redundant configuration)

Voltage	115/230VAC±10%, selectable.
Option 10;	48VDC
Frequency	50/60Hz
Total power	50 Watts max.

### Control System Interface

Remote Control	RS232/RS485 port. Ethernet option; Embedded web server & SNMP network management support (option 9).
Alarms	PSU fail Amplifier current detection

### Integral 1+1 'Module' Redundancy (Option 6)

Connections	50Ω, SMA(f), includes all rear panel mounted 1+1 switch interfaces.
User Interface	Key switches on front panel
Switching speed	<150ms (from fault to switch completion)
Switch Isolation	>60dB input to output
Cables	Includes high grade rear panel links.

Note; Connection to the internal redundancy circuitry is made via links on the rear panel, this allows for by-pass wiring should the need arise. High grade co-axial linking cables are provided.

## MLA Modules - Typical Specification

### Input

Frequency	MLA1450; 950-1450MHz MLA1750; 950-1750MHz MLA2150; 950-2150MHz
Connector	50Ω, SMA, female Option 1a; N-Type, Option 1c; BNC
Return loss	16dB typical

### Output

Connector	50Ω, SMA, female Option 1b; N-Type, Option 1d; BNC
Return loss	18 to 22dB typ. (frequency dependent)

### RF Performance

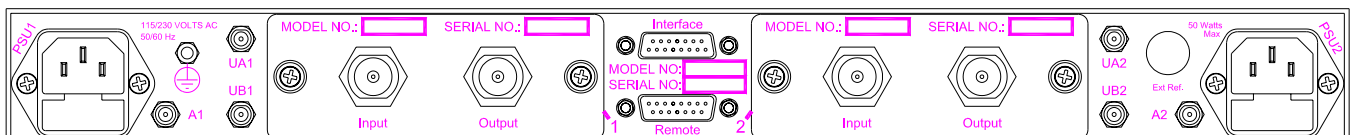
Gain	20dB minimum For higher Gain options please contact the factory.
Gain flatness	±0.25dB (bandwidths <500MHz) ±0.5dB (bandwidths <800MHz) ±1dB (bandwidths <1200MHz)
Active Directivity	22dB typical 20dB minimum
RF Input power	-10dBm max. (no load, no damage)
TOIP	+25dBm typical
1dB Output GCP	+13dBm typical For higher GCP options please contact the factory.
Noise Figure	7 to 9dB typ. (frequency dependent)

### Options

- 1a) N-Type(f) MLA module input connector.
- 1b) N-Type(f) MLA module output connector.
- 1c) BNC(f) MLA module input connector.
- 1d) BNC(f) MLA module output connector.
- 6) Integral 1+1 redundancy module switching.
- 9) Ethernet interface with embedded web server & SNMP, replaces RS232/485 port.
- 10) 48VDC prime power supply.

Notes; The addition of Options can modify the typical specification, for details please consult the factory.

## Rear panel view (shown with 1+1 redundancy option fitted)



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. DLA200-310810.

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