



Univox[®] MLS-1, MLS-1P & MLS-2

Compact hearing loop amplifiers

Features

- **Easy & Fast Installation** – Compact, low-profile design for streamlined integration
- **Wide Power Supply Range** – Supports various voltage inputs for flexible setups
- **Efficient Class-D Technology** – Exceptionally high efficiency with low heat generation
- **Versatile Audio Input** – Connects to both Mic and Line level signals
- **Univox AGC** – Automatic Gain Control for unsurpassed speech intelligibility
- **MLC (Metal Loss Compensation)** – Fine-tunes audio to counteract metal-induced signal loss
- **Reliable Compliance** – Meets IEC 60118-4 industry standards

Hearing loop amplifier modules for OEM integration

The Univox MLS-Series is a line of compact, modular PCB amplifiers. This versatile series offers different options to accommodate various OEM application and challenges encountered in small installation requiring complete hearing loop.

MLS-1 & MLS-2 comes equipped with sets of Phoenix connectors for power, signal input, and output while MLS-1P features an alternative connection option with pin strips the connectivity and minimize the unit's profile for streamlined installations.

Built on the efficient class-D platform, Univox MLS-series is optimized for systems requiring high energy efficiency and low heat generation, making it ideal for compact installations with restricted airflow.

The MLS-series includes AGC, enabling easy connections to various input signal sources. Features also Metal Loss Compensation (MLC) which enables fine tuning & compensation metal loss and attenuation caused by metal constructions.

Correctly installed and commissioned the system complies with all requirements of standard IEC 60118-4, guaranteeing adherence to industry standards and regulations.

Applications include:

- Reception desks and ticket counters
- Information- and help points
- Kiosks and booths
- Intercoms
 - Lifts
 - Emergency phones
 - Customer service points
 - Booths and gates
 - Drive-throughs
 - Door entries

Technical Data MLS-1, MLS-1P & MLS-2

	MLS-1	MLS-1P	MLS-2
Power Supply			
External Power Supply:	6-24 VDC / 12-50 VA		6-30VDC/12-50VA
Recommended Power Supply:	12-24 VDC / 15-50 VA		15-30V/25-50VA
Idle current:	36mA		50mA
Idle power @ 12VDC:	0.3W		0.5W
Connectors			
	Phoenix Contact	10 Pin Headers	Phoenix Contact
Trimmers			
	MLC Input Output		
Input Mic-phantom / Line (MLS-1P has only Line)			
Type:	Differential/Balanced		Galvanically isolated > 1kV
Mic Input:	13 mVrms		13 mVrms; AGC/knee
Line Input:	85 mVrms – 7Vrms		250mVrms - 7Vrms
Input Impedence:	2 kOhm		2 kOhm
Output			
Max Volt Out:	48Vpp		60Vpp
Mx Current:	6 Arms		6 Arms
Max Power:	50W		75W
Loop Load			
Workable Load range:	0-30 Ohm		
Recommended:	0.35-1.5 Ohm		
Dimensions			
	78 x 53 x 16 mm		105 x 70 x 16 mm
Weight			
	35g		50g
Environment			
Temp range:	-40 to 75°C		
PCB classification			
	94L		
Part.no			
	204000	204000P	204002

For more information, please visit univox.eu

