illawarra communications
Professional Radio & Paging Communication Specialists

101 Auburn Street, Wollongong NSW
Phone: 02 4229 7300
Fax: 02 4226 1775
Email: mitch@illcom.com.au

# MLA AMPLIFIER SERIES

- DRIVE-BY DIAGNOSTICS'
- ACU (AUTOMATIC GAIN CONTROL
- HIGH NOISE IMMUNITY
- VOICE, DATA CAPABLE
- SURFACE MOUNT COMPONENTS
- IP66/NEMA4X ENCLOSURE


## DESCRIPITION

MLA Line Amplifier series is capable for amplifying Voice – Data signals (not video) and is packaged in an IP66/NEMA4X heay duty enclosure. The amplifier is powered from the leaky feeder cable; no speical tools are required to slice it into the leaky feeder cable. The MLA incorporates 2 separate amplifiers (full Duplex), one providing the Down-Link or forward path, the other the Up-Link or reverse path back to the Head End. AGU (Automatic Gain Control) circuits are used to overcome signal level changes bought about by the number of channels in use at any one time, as well as over coming variance in the distance between amplifiers.

The MLA line amplifer also offers Drive-By Diangostics®, in the form of 4 high intensity LED's, which indicate the current condition of the amplifier. Simply by walking or driving past the amplifier you can determine, without opening the cover, the voltage is present, both amplifiers are operational and whether the forward or reserse AGU circuits are operational. The amplifier was specifically designe for the transmission of high speed Data, it utilises four filters whereas some manufactures only offer 2 filters. The MLA amplifier offers a high level of sidebrand immunity, as well as a high level of immunity form external noise. The MLA is not designed to pass Video signals, nor is it possible to add this feature at a later date.

## SPECIFICATIONS

| | |
|---|---|
| **Frequency** | **VHF & UHF** |
| **Gain** | **350m version – 16dB**<br>**500m version – 22dB** |
| **Connection** | **Brass Screw terminal and Saddle** |
| **Impedance** | **50 or 75 ohm versions** |
| **Through Current Capacity** | **1.5 amps Max** |
| **Operating Voltage** | **12, 24, 48 volt versions** |
| **Current Drain** | **125mA @ 12VDC** |
| **Enclosure** | **IP66/NEMA4X heavy duty enclosure**<br>**c/w IP66 brass cable glands** |
| **Weight and Dimensions** | **1.2Kgs – 190(w) x 60(d) x 75(h)mm** |