illawarra communications
Professional Radio & Paging Communication Specialists

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LAVD AMPLIFIER SERIES

- SMART DIAGNOSTICS SYSTEM
- AGU (AUTOMATIC GAIN CONTROL)
- HIGH NOISE IMMUNITY
- VOICE, DATA & VIDEO CAPABLE
- SURFACE MOUNT COMPONENTS
- IP66/NEMA4X ENCLOSURE

DESCRIPITION

LAVD Line Amplifier is capable of amplifying Voice – Data – Video signals and is packaged in an IP66/NEMA4X heavy duty enclosure. The amplifier is powered from the leaky feeder cable; no special tools are required to splice it into the leaky feeder cable.

The LAVD incorporates 3 separate amplifiers (full Duplex), one proving the Voice/data Down-Link or forward path, the second provides the Voice/data Up-Link or reverse path back to the Head End, the third provides the Video Up-Link back to the Head End. AGU (Automatic Gain Control) circuits are used to overcome signal level changes brought about by the number of channels in use at any one time, as well as over coming variances in the distance between amplifiers.

The LAVD is equipped with both Drive-By Diagnostics® and SMARTDiagnostics®. The SMARTDiagnostics module contains a MicroPC and a small Data Radio Modem. The MicroPC monitors the voltage, current drain and the signal levels of the amplifiers, the resultant data along with the amplifier ID is transmitted via the on board Data Radio Modem back to the Head End SMARTDiagnostics® interface, with the resultant data displayed on a desktop PC monitor using SMARTDiagnostics® software.

The amplifier was specifically designed for high speed Data, it utlises four filters whereas some manufactures only offer 2 filers. The LAVD amplifier offers a high level of immunity from external noise.

SPECIFICATIONS

Frequency Voice/Data	**VHF & UHF**
Frequency Video	**20 to 120Mhz (NTSC or PAL standards)**
Gain	**350m versions – 16dB** **500m versions – 22dB**
Connection	**Brass Screw terminal and Saddle**
Impedance	**50 or 75 ohm versions**
Through Current Capacity	**1.5 amps Max**
Voltage & Current Drain	**12, 24, 48 volt versions –** **250mA @ 12VDC (375mA TX)**
Enclosure	**IP66/NEMA4X heavy duty enclosure c/w IP66 brass cable glands**
Weights & Dimensions	**1.5Kgs – 190(w) x 60(d) x 75(h) mm**