



DLVA'S, Extended Range DLVAs & SDLVAs

The Pascall range of hermetically sealed Detector Logarithmic Video Amplifiers (DLVA) are designed for optimum performance and reliability for applications in receiver systems operating in the 0.5 to 18GHz frequency band.

The range of DLVAs are offered in three basic types – DLVAs with dynamic ranges up to 50dB, extended range DLVAs (EDLVAs) with a dynamic range to 70dB and successive detection DLVAs (SSDLVAs) with dynamic range to 75dB.

DLVAs are available in either DC or AC coupled form, giving fast rise and fall times with an accurate video transfer function over a logging range of 40dB. The AC coupled versions give the ability to process narrow pulses with high accuracy.

CW immune designs extend the capability by allowing the accurate processing of pulse modulated signals in the presence of a continuous wave (CW) signal.

EDLVA models provide higher sensitivity together with an extended dynamic range of 70dB.

The SDLVA models offer excellent pulse fidelity, high sensitivity, fast rise and recovery times as well as extended dynamic range to 75dB.

Combined CW immune/DC coupled units are available that may be switched between the two modes using an external TTL signal and also differentiator DLVAs that offer the benefits of a DC coupled unit together with very short immunity time.

Westridge Business Park
Cothey Way
Ryde, Isle of Wight
PO33 1QT, UK

Tel: +44 (0)1983 817300
Fax: +44 (0)1983 564708
Email:
enquiries@pascall.co.uk
www.pascall.co.uk

DLVAs, extended range DLVAs & SDLVAs

General Information

DC coupled DLVA – dynamic range 50dB.

Frequency range (GHz) 0.5 to 2, 2 to 6, 6 to 18, 2 to 18 & 0.5 to 18

CW immune DLVA – dynamic range 48 & 60dB

Frequency range (GHz) 0.5 to 2, 2 to 6, 6 to 18, 2 to 18 & 0.5 to 18

AC coupled DLVA – dynamic range 45dB

Frequency range (GHz) 2 to 18

CW immune EDLVA – dynamic range 55 & 70dB

Frequency range (GHz) 2 to 8, 8 to 18 & 2 to 18

DC coupled EDLVA – dynamic range 70dB

Frequency range (GHz) 2 to 8, 8 to 18 & 2 to 18

SDLVA - dynamic range 57 & 70dB

Frequency range (GHz) 2 to 6

RF input impedance 50 ohms all models

Input VSWR dependant on model

Video impedance 100 ohms all models

**Temp range – operating -45 to +85 deg C
storage -55 to +125deg C**

RF connectors SMA all models

Video output connectors dependant on model

Power supply +12 volts & -12 volts all models