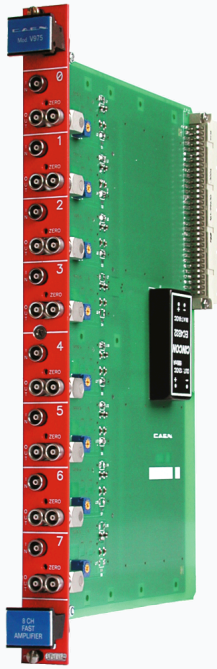
V975

8 Channel Fast Amplifier

VME	8	10
Package	No. of Channels	Gain

V975 is an 8-channel fast amplifier in a 1-unit VME module, providing fixed x10 voltage gain on bipolar, non-inverting channels. It offers 250 MHz input bandwidth for signals up to 50 mVpp, decreasing to 110 MHz at 400 mVpp, with ±2 V output dynamics and 50 Ohm input and load drive. Each channel has one input and two bridged outputs on LEMO 00 connectors, <1.5 ns rise/fall time with a 25 mV unipolar input, and <3 ns I/O delay. Channels are cascadeable; ±25 mV offset calibration and output short-circuit protection are included.



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Tools for Discovery

Overview

Product Highlights

- Input bandwidth up to 250 MHz
- 50 Ohm input impedance
- Drives 50 Ohm loads
- Rise/fall time <1.5 ns with a 25 mV unipolar input amplitude
- x10 Fixed Gain
- ±2 V output dynamics
- Cascadeable channels
- I/O delay <3 ns

Product Description

The **Mod. V975** is an 8 channel fast rise time amplifier housed in a 1-unit VME module; each channel features a fixed voltage gain of 10. Channels are bipolar, non-inverting and can be cascaded in order to obtain larger gain values. Input bandwidth is 250 MHz for signals up to 50 mVpp and decreases for larger ones (up to 110 MHz @ 400 mVpp). Each channel is provided with three LEMO 00 connectors, one for the input and two bridged for the output. The board features a ±2 V output dynamics. Screw-trimmers (one per channel) allow the offset calibration which operates over a ±25 mV range. The features include an output short circuit protection.

AT A GLANCE

Package	**VME**
No. of Channels	**8**
Gain	**10**
Bandwidth (MHz)(1)	**250 (gain: 10x)**
Coupling	**DC**
Input Impedance (Ω)	**50**

Technical Specifications

Packaging	1U-wide VME unit
Voltage gain	10
Rise time	≤ 1.5 ns (unipolar input, ±25 mV max. amplitude)
Band width	• ±25 mV input signal: 0÷250 MHz • ±200 mV input signal: 0÷110 MHz
Output dynamics	±2 V
Offset nulling range	±25 mV (measured with 0 Ohm termination on input)
Max input amplitude	200 mV
Inputs channels	8, DC coupled, 50 Ohm ± 2% impedance
Output channels	8 with Fan-Out of two, drive 50 Ohm load
Noise	< 50 µV RMS (referred to the input)
Interchannel insulation	50 dB
VSWR	
< 1.3	
I/O Delay	< 3 ns
Offset uniformity	• ±4 mV (typical) • ±12 mV (maximum)

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Ordering Information

ORDERING CODE	DESCRIPTION
WV975XBAAAAA	V975B – 8 Channel Fixed Gain Fast Amplifier (no JAUX)

1. Ordering codes and descriptions are reproduced from the product record. Availability is confirmed at order entry.

Related Products

NV8020A — 7U CRATE VME/NIM 8 slot VME64 365W, 5 slot NIM 150W

V3718 — VME to USB 2.0 / Optical Link Bridge

V4718 — VME to USB 3.0/Ethernet/Optical Link Bridge

VME8001 — 1U 2 Slot VME64 Mini Crate

VME8004B — 2U 4 Slot VME64 Mini Crate

VME8004X — 2U 4 Slot VME64X Mini Crate

VME8008B — 4U 8 Slot VME64 Mini Crate

VME8008X — 4U 8 Slot VME64X Mini Crate

VME8011 — 7U 21 Slot VME64 Low Cost Crate

VME8100 — 8U 21 Slot VME64/64X Enhanced Crate Series

VME8200 — 9U 21Slot VME64X Enhanced Crate series

VX3718 — VME64 to USB 2.0/Optical Link Bridge

VX4718 — VME to USB 3.0/Ethernet/Optical Link Bridge

µ-crate — Desktop single-slot VME64X Crate

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