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Technical Information Manual

Revision n. 2
31 January 2007

MOD. V859

DUAL ATTENUATOR

NPO:
00101/01:V859X.MUTx/02

CAEN will repair or replace any product within the guarantee period if the Guarantor declares that the product is defective due to workmanship or materials and has not been caused by mishandling, negligence on behalf of the User, accident or any abnormal conditions or operations.

CAEN declines all responsibility for damages or injuries caused by an improper use of the Modules due to negligence on behalf of the User. It is strongly recommended to read thoroughly the CAEN User's Manual before any kind of operation.



This product must be installed by qualified personnel; in order to be CE compliant it requires 3-phase EMC filter type EPCOS B84143-A16-R105 on the mains supply cable; this filter does not support operation in hostile areas (magnetic field).

CAEN reserves the right to change partially or entirely the contents of this Manual at any time and without giving any notice.

Disposal of the Product

The product must never be dumped in the Municipal Waste. Please check your local regulations for disposal of electronics products.



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1. General description

1.1 Overview

The **Model V859** is a passive dual section attenuator housed in a 1-unit VME module; the module does not require any power supply since it is made up of resistive cells (50 Ohm impedance each).

Attenuation ranges from 0 to 44.5 dB for each section (0.5 dB steps). The two section can be "cascaded" in order to obtain a single section featuring a 0÷89 dB (step: 0.5 dB) attenuation.

Each section is provided with two LEMO 00 connectors, one for the input (50 Ohm impedance) and one for the output, and seven toggle switches for attenuation setting (LEFT = attenuation ON, RIGHT = attenuation OFF); an additional switch, placed between OUT A and IN B connectors, allows to select between single/dual mode, i.e. it allows to cascade the two sections (LEFT = dual, RIGHT = single).

When the module operates in *single mode*, IN A and OUT B become respectively the input and the output connectors, while OUT A and IN B become meaningless.

2. Technical specifications

2.1 Packaging

The Model V859 is housed in a 6U-high, 1U-wide VME unit. The board hosts the VME P1 connector and supports live insertion.

2.2 Front panel

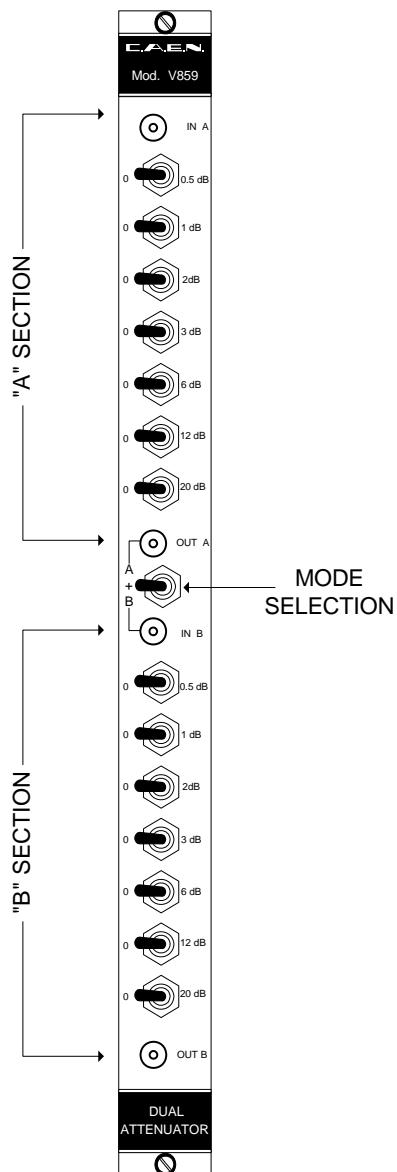


Fig. 2.1: Mod. V859 Front Panel

2.3 External components

INPUT CONNECTORS:	LEMO 00 connectors
OUTPUT CONNECTORS:	LEMO 00 connectors
ATTENUATION:	14 toggle switches
MODE SELECTION:	1 toggle switch

2.4 Technical specification table

Table 2.1: Mod. V859 Technical Features

Packaging	1U-wide VME unit
Number of sections	1 or 2 (toggle switch selectable)
Attenuation	<i>dual</i> : 0÷44.5 dB <i>single</i> : 0÷89 dB
Resolution	0.5 dB
Input impedance	50 Ω
I/O delay	< 5 ns (all stages inserted)
Accuracy	1%
Max frequency	> 300 MHz
Max dissipated power (per section)	100 mW
Insertion loss	0.1 dB

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