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.

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

1.1 Overview

The Model N858 is a passive dual section attenuator housed in a 1-unit NIM 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).

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 OFF, RIGHT = attenuation ON).
2. Technical specifications

2.1 Packaging

The Model N858 is housed in a 1U-wide NIM unit.

2.2 Front panel

Fig. 2.1: Mod. N858 Front Panel
2.3 External components

**INPUT CONNECTORS:** LEMO 00 connectors

**OUTPUT CONNECTORS:** LEMO 00 connectors

**ATTENUATION:** 14 toggle switches

2.4 Technical specification table

<table>
<thead>
<tr>
<th></th>
<th>Table 2.1: Mod. N858 Technical Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>1U-wide NIM unit</td>
</tr>
<tr>
<td>Number of sections</td>
<td>2</td>
</tr>
<tr>
<td>Attenuation</td>
<td>0÷44.5 dB</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.5 dB</td>
</tr>
<tr>
<td>Input impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>I/O delay</td>
<td>&lt; 5 ns (all stages inserted)</td>
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<tr>
<td>Accuracy</td>
<td>1%</td>
</tr>
<tr>
<td>Max frequency</td>
<td>&gt; 300 MHz</td>
</tr>
<tr>
<td>Max dissipated power (per section)</td>
<td>100 mW</td>
</tr>
<tr>
<td>Insertion loss</td>
<td>0.1 dB</td>
</tr>
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</table>