Rise-Time Filter 10 ns

Advanced TLP/HMM/HBM Solutions

1 Features

- 50 Ω rise-time filter for TLP measurements
- typ. 10 ns rise-time
- high reflection suppression
- up to 3 kV pulse peak voltage
- SMA connectors

2 Description

The rise time filter is used to generate a pulse rise-time of 10 ns ±10 % at the output of the filter. The filter can be connected directly at the pulse output of the high voltage pulse generator. The rise-time of the pulse at the input of the filter should be set to 100 ps. The filter is fully symmetrical. Input and output can be exchanged.

3 Electrical Characteristics

![Figure 1: Typical step response](image1)

![Figure 2: Typical frequency response](image2)

![Figure 3: Typical reflection suppression](image3)

4 Ordering Information

<table>
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<tr>
<th>Pos.</th>
<th>Description</th>
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<tr>
<td>01</td>
<td>Rise-Time Filter 10 ns</td>
<td>ORTF-10</td>
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High Power Pulse Instruments GmbH
Stadlertstrasse 6A
D-65540 Haar, Germany
Phone: +49 (0) 89 8780698 - 440
Fax: +49 (0) 89 8780698 - 444
E-Mail: info@hppi.de

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Internet: www.hppi.de
E-mail: info@hppi.de