

10 ns Rise Time Filter ORTF-10

Advanced TLP/HMM/HBM Solutions

1 Features

- 50 Ω rise time filter for TLP measurements
- 10 ns rise time ($\pm 10\%$)
- better than 20 dB return loss up to 500 MHz
- 3.15 kV pulse peak voltage

2 Description

The rise time filter is used to generate a pulse rise time of 10 ns 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 at least significantly less than 1 ns. The filter is fully symmetrical. Input and output can be exchanged.

3 Electrical Characteristics

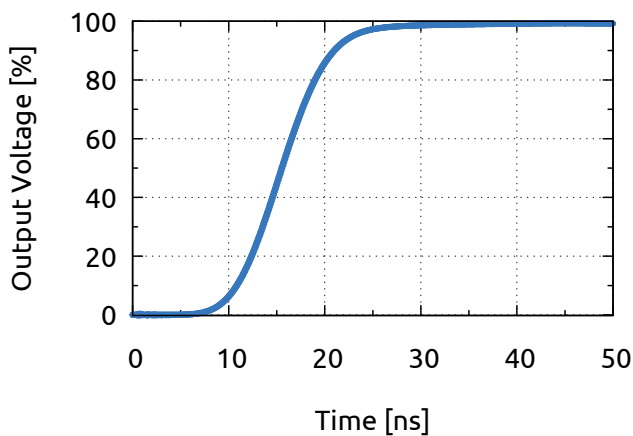


Figure 1: Typical step response

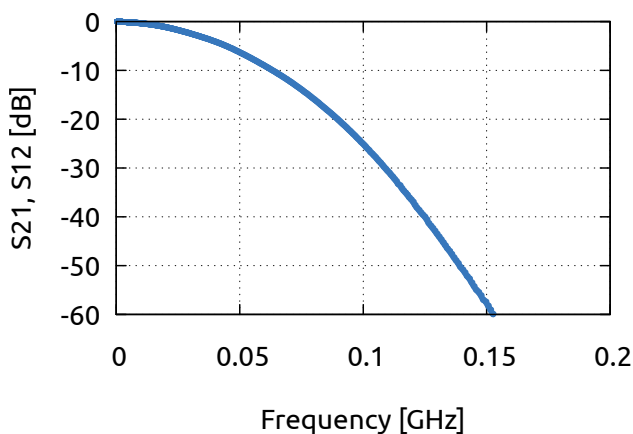


Figure 2: Typical frequency response

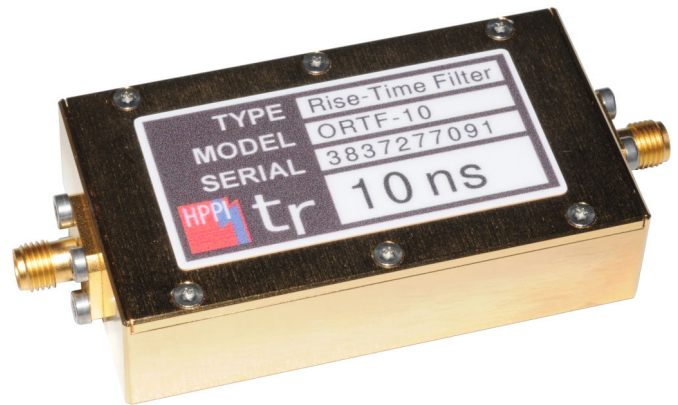


Figure 3: ORTF-10 (size: 67.2 mm x 37.2 mm x 16.8 mm)

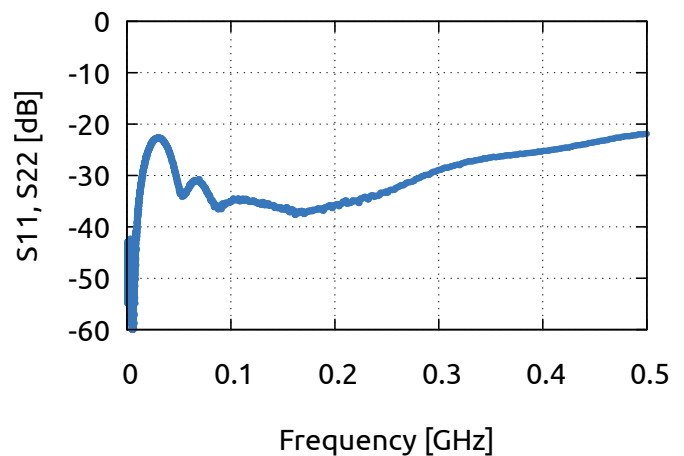


Figure 4: Typical return loss

4 Ordering Information

Pos.	Description	Part No.
01	10 ns Rise Time Filter	ORTF-10

General

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