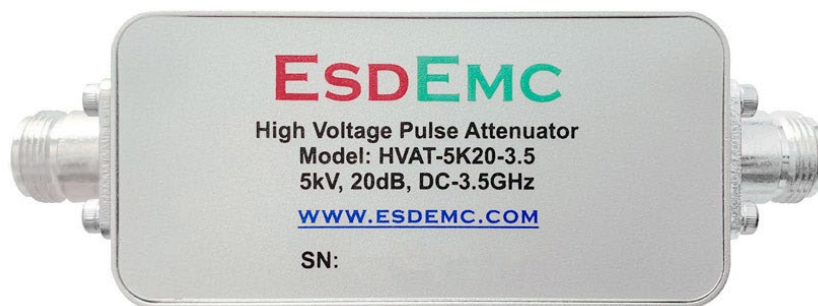


HVAT-5K Series High Voltage Pulse Attenuator



1. Description

The HVAT-5K Series High Voltage Pulse Attenuator is used to attenuate high voltage pulse signals in a 50 Ω system. It consists of highly surge-robust components with great voltage linearity. The device is symmetrical as input and output can be exchanged.

Note: HVAT-5K is the replacement model of our previous HVAT-N HV pulse attenuator.

2. Features

- Surge robust attenuator with great voltage linearity
- Wide frequency measurement capability from DC up to 3.5 GHz
- Symmetrical design, input and output can be exchanged
- N-Type connector interface, up to 5 kV peak pulse capability
- Customization attenuation designs available

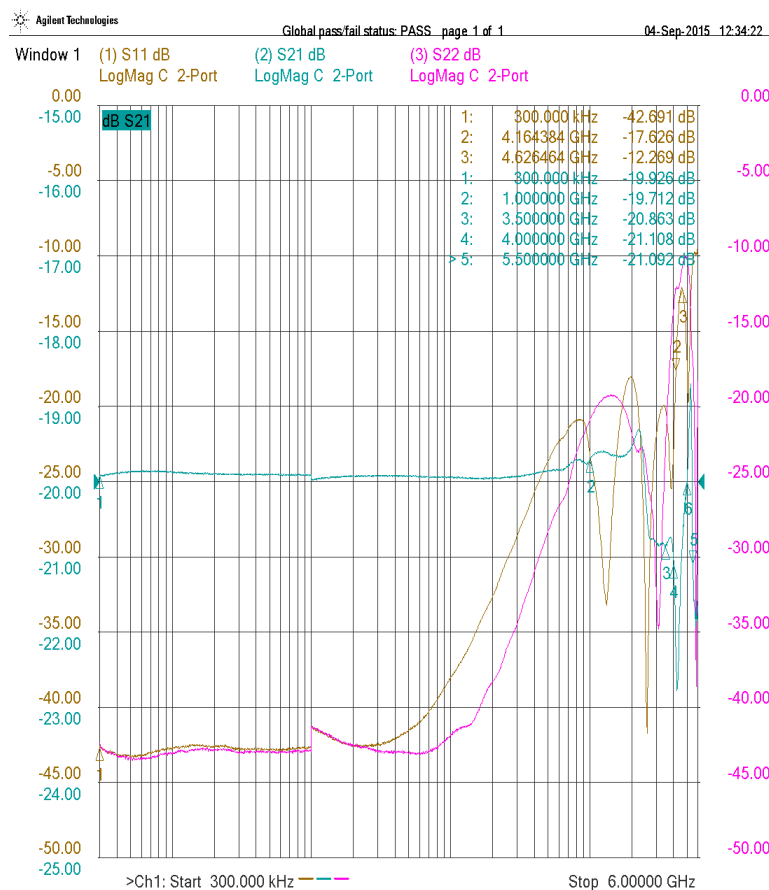
3. Applications

- High voltage pulse measurement
- Pulse generator waveform calibration, such as Transmission Line Pulse (TLP), Electrical Fast Transient (EFT), etc...

4. Specifications

Parameters	Value	Unit	Comments
Nominal Impedance	50	Ohm	< ± 2 Ohm
Usable Frequency Range	DC – 3.5	GHz	
Nominal Attenuation	6, 20	dB	(± 1) dB
Nominal Return Loss	≤ -15	dB	
Peak Pulse Voltage	5	kV	Test with 500 ns pulse width TLP at 1 pulse per second repetition rate
Peak Pulse Power	500	kW	
Dimensions	133 X 45 X 32	mm	
Weight	About 300	g	

Typical Network Analyzer Measurement is shown below:



5. Ordering Information

Line	Part # or Option #	Description
1	HVAT-5K6-3.5	6 (± 1) dB, DC-3.5 GHz, 5kV HV Pulse Attenuator with N-Type Connector
2	HVAT-5K20-3.5	20 (± 1) dB, DC-3.5 GHz, 5kV HV Pulse Attenuator with N-Type Connector

2020 Customized attenuator design is available upon request