Data Sheet

high performance inductive PD sensors

HFCT 50mm

Techimp High Frequency Current Transformer is an inductive sensor for Partial Discharge measurements. It is suitable for on/off line PD tests on many electrical systems such as cables, transformers, rotating machine, etc... It has to be applied to the ground connection of the system to be tested.

A BNC termination is available to connect the HFCT to the Techimp PD detection / analyzer unit through a coaxial cable. The arrow indicates the output voltage (V_{out}) direction in comparison with the input current (I_{in}) direction: when the sensor is installed with the arrow directed to ground junction, the detected voltage signal (V_{out}) has the same phase as the input current (I_{in}).

Benefits

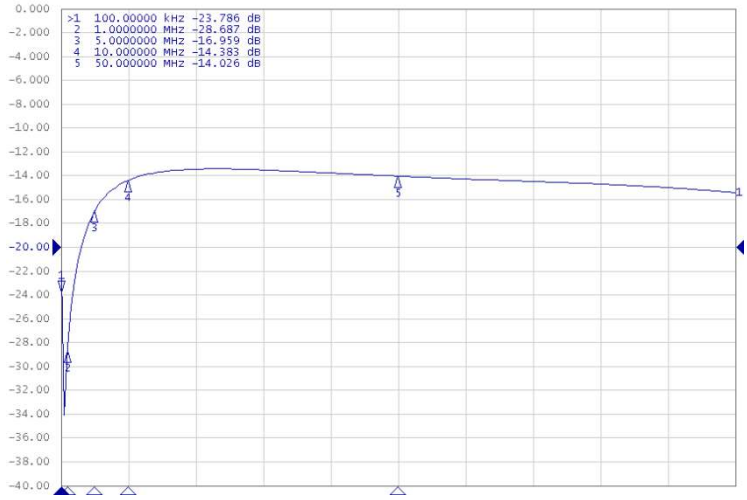
- Maintenance free
- High sensitivity and reliability
- Robust and easy to use
- Safety
- IP 58 rated
- High Current proof

Specifications

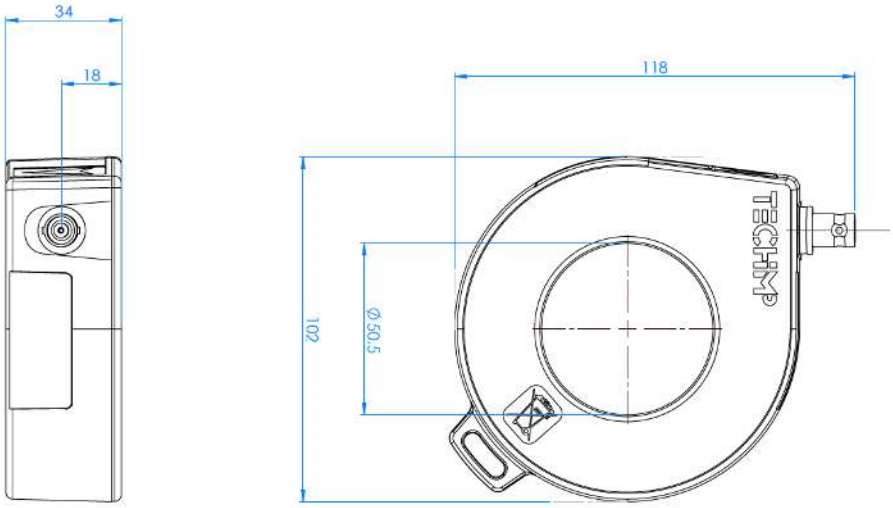
Bandwidth	1MHz ÷ 60MHz
Max Sensitivity (V_{out} / I_{in} @42MHz, 50 Ω load)	17mV/mA
Load Impedance	50Ω
Max current (@50/60Hz)	150 A
Hole dimension	Φ 50mm
Lightning impulse	72.5kV
Power Frequency Withstand voltage	15kV for 1 min
Operating temperature	-20°C +70°C

HFCT 50mm

Frequency Response



Mechanical Specification



Suitable For

HVAC CABLE	MVAC CABLE	HVDC CABLE	MOTOR	GENERATOR	PWM VSD	GIS GIL GIB	SWITCH BOARDS	OUTDOOR INSULATOR	HV TRAFO	MV TRAFO	TA/TV

Several different sensors are available, fully compatible with Techimp Global Diagnostic platform.
They can be freely combined at customer needs provided they can be applied for the specific application.

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