

High Frequency Current Transformer



TechImp HFCT is an inductive sensor for partial discharge measurements. It is suitable for on/off line PD tests on many electrical systems (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 (PDBase/PDSolver/PDMonitor) 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, the detected voltage signal (V_{out}) has the same phase as the input current (I_{in}).

Specifications

Bandwidth (-6dB)	1 MHz ÷ 80 MHz
Max Sensitivity (V_{out} / I_{in} at 42 MHz, 50 Ω load)	17 mV/mA
Load Impedance	50 Ω
Hole dimension	Φ 30 mm
Overall dimension	72 mm x 97 mm x 35 mm

Frequency response

