

high performance inductive PD sensors



HFCT 30mm

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 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

SPECIFICATIONS

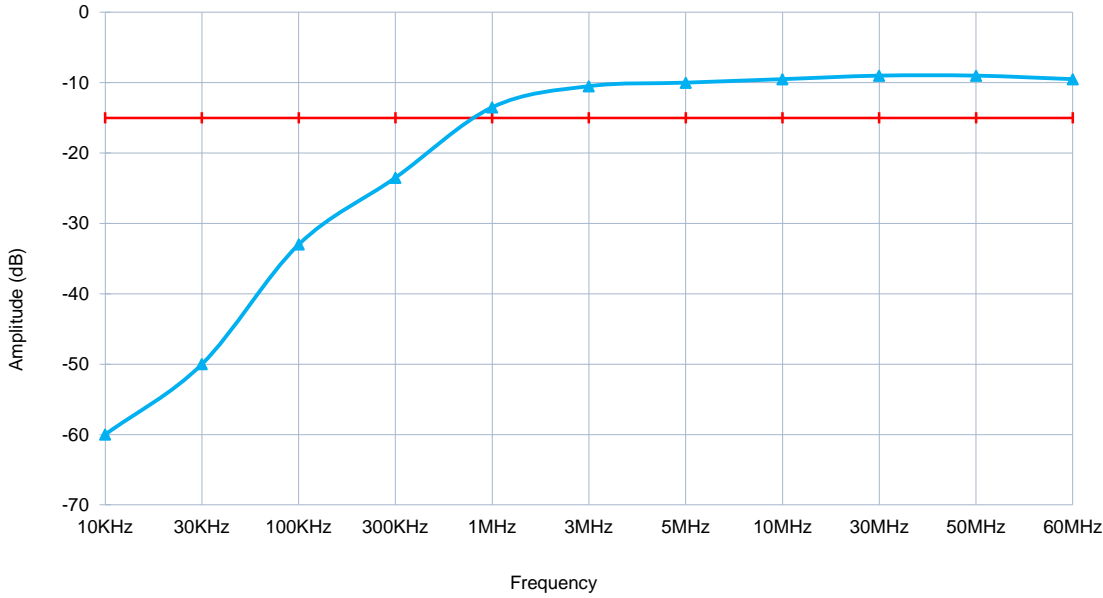
Bandwidth	1 MHz ÷ 60MHz
Max Sensitivity (V_{out} / I_{in} at 42 MHz, 50 Ω load)	17 mV/mA
Load Impedance	50 Ω
Vout (no load connected) @ 50Hz	0,6Vpp @ 100A
Vout (no load connected) @ PD frequency	0,4Vpp @ 100pC
Hole dimension	Φ 30 mm
Electric insulation	25kVpeak (for 1 hour)
Operating temperature	-20°C +70 C

Data Sheet

HFCT 30mm



FREQUENCY RESPONSE



MECHANICAL SPECIFICATION



👍 SUITABLE FOR

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.

HVAC CABLE	MVAC CABLE	HVDC CABLE	MOTOR	GENERA TOR	PWM VSD	GIS GIL GIB	SWITCH BOARDS	OUTDO OR INSULA TOR	HV TRAF0	MV TRAF0	TA/TV
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