

# 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



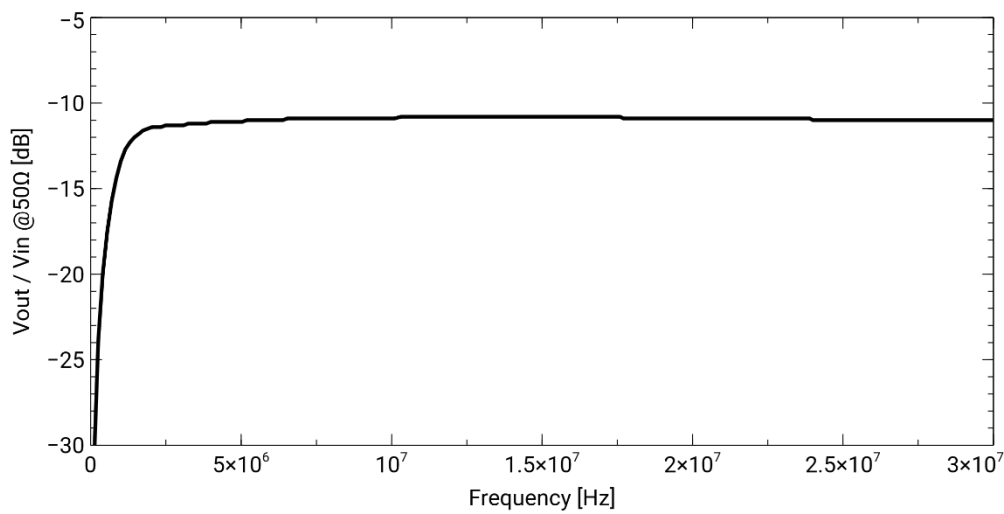
### Specifications

Bandwidth  
Max Sensitivity ( $V_{out} / I_{in}$  at 42 MHz, 50  $\Omega$  load)  
Load Impedance  
Vout (no load connected) @ 50Hz  
Vout (no load connected) @ PD frequency  
Hole dimension  
Electric insulation  
Operating temperature

1 MHz ÷ 60MHz  
17 mV/mA  
50  $\Omega$   
0,6Vpp @ 100A  
0,4Vpp @ 100pC  
 $\Phi$  30 mm  
25kVpeak (for 1 hour)  
-20°C +70 C

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## Frequency Response



## Mechanical Specification



Suitable For

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