

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

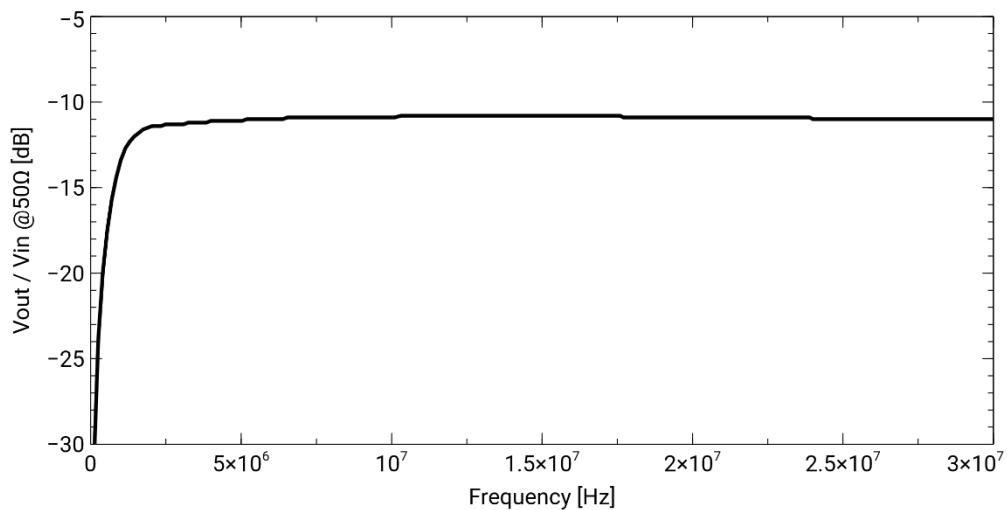
Specifications

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

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

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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.



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