

# High performance inductive PD sensor

## HFCT 70mm



Techimp HFCT 70mm is an inductive sensor for Partial Discharge detection. It is suitable for online/offline PD tests on many electrical systems such as MV/HV cables, transformers, rotating machines and others.

Techimp HFCT 70mm can be easily installed on the ground connection of the electrical system under test having a ground cable or connector maximum diameter of about 70mm.

Techimp HFCT 70mm can be directly connected to any Techimp PD acquisition unit by means of a 50Ω coaxial cable.

The arrow on the enclosure indicates the polarity of the output voltage ( $V_{out}$ ) in relation to the input current ( $I_{in}$ ) direction. The sensor should be installed having the arrow towards the ground so that 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

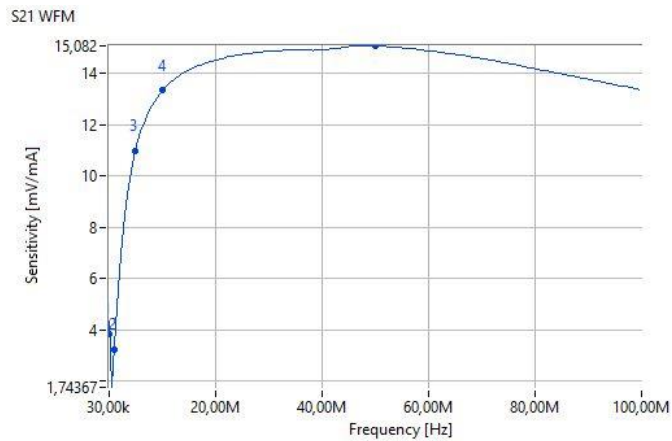
### Specifications

Bandwidth  
Max Sensitivity ( $V_{out} / I_{in}$  @5MHz)  
Load Impedance  
Hole dimension  
Operating temperature

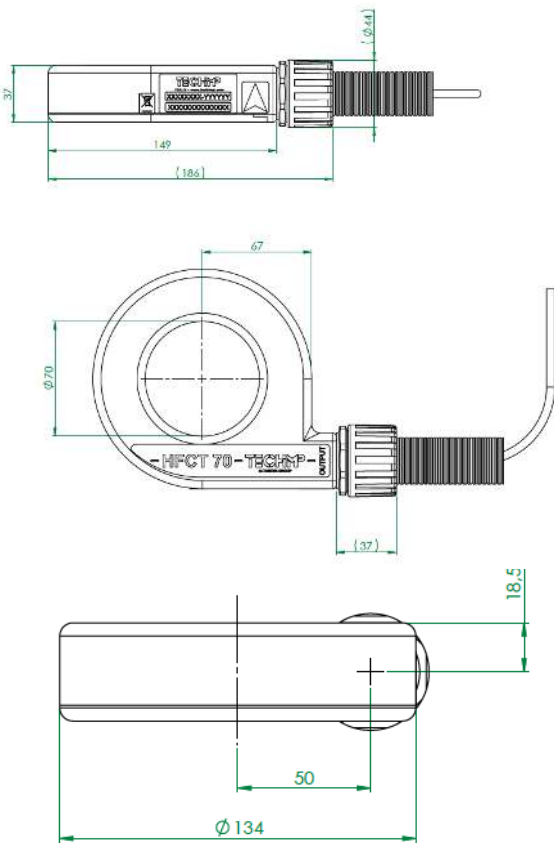
1MHz ÷ 80MHz  
12mV/mA  
50Ω  
Φ 70mm  
-20°C +70°C

# HFCT 70mm

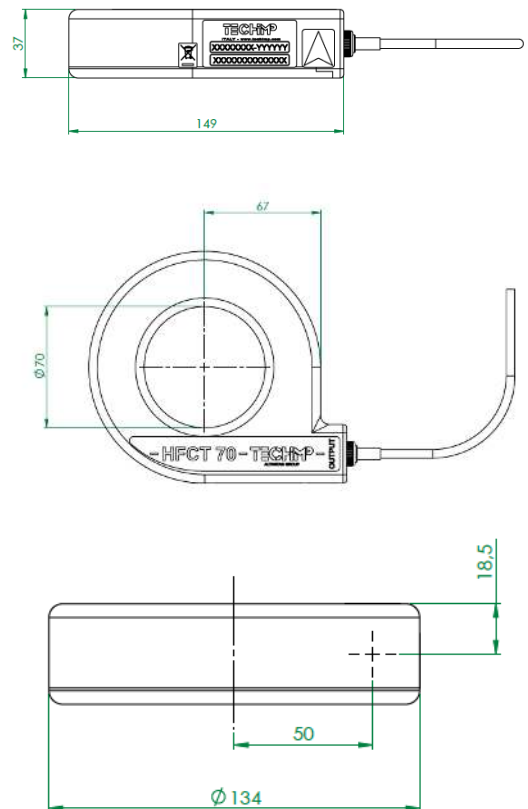
## Frequency Response



### Mechanical Specification DUCT VERSION



### Mechanical Specification BNC VERSION



**Suitable For**

- HVAC CABLE
- MVAC CABLE
- HVDC CABLE
- MOTOR
- GENERATOR
- PWM VSD
- GIS GIL GIB
- SWITCH BOARDS
- OUTDOOR OR INSULATOR
- HV TRAF0
- MV TRAF0
- 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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