

# High performance inductive PD sensors

## HFCT 78mm



Techimp High Frequency Current Transformer 78mm Clamp is an inductive sensor for Partial Discharge detection. It is suitable for on/ off line PD tests on many electrical systems such as cables, transformers, rotating machine, etc...

The main advantage of the HFCT 78mm Clamp is the easy installation on the ground connection of the electrical system under test without the need of disconnecting it.

A coaxial BNC connector is available to connect the HFCT 78mm Clamp 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: 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 (  $I_{in}$  ).

### Benefits

- Maintenance free
- High sensitivity and reliability
- Robust and easy to use
- Safety

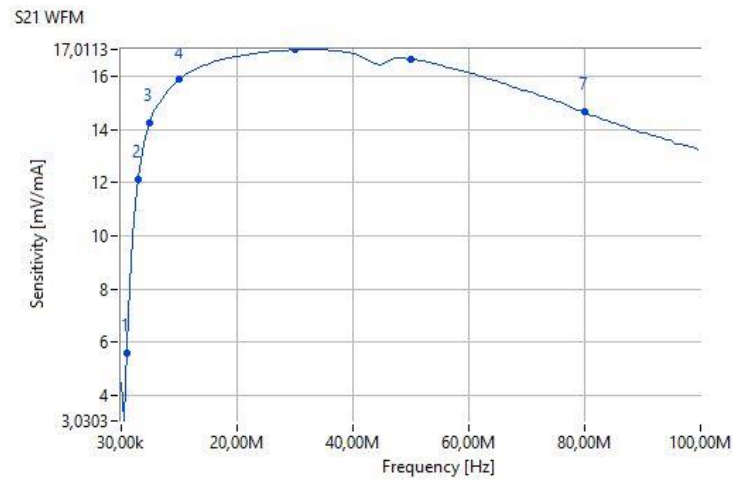
### Specifications

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

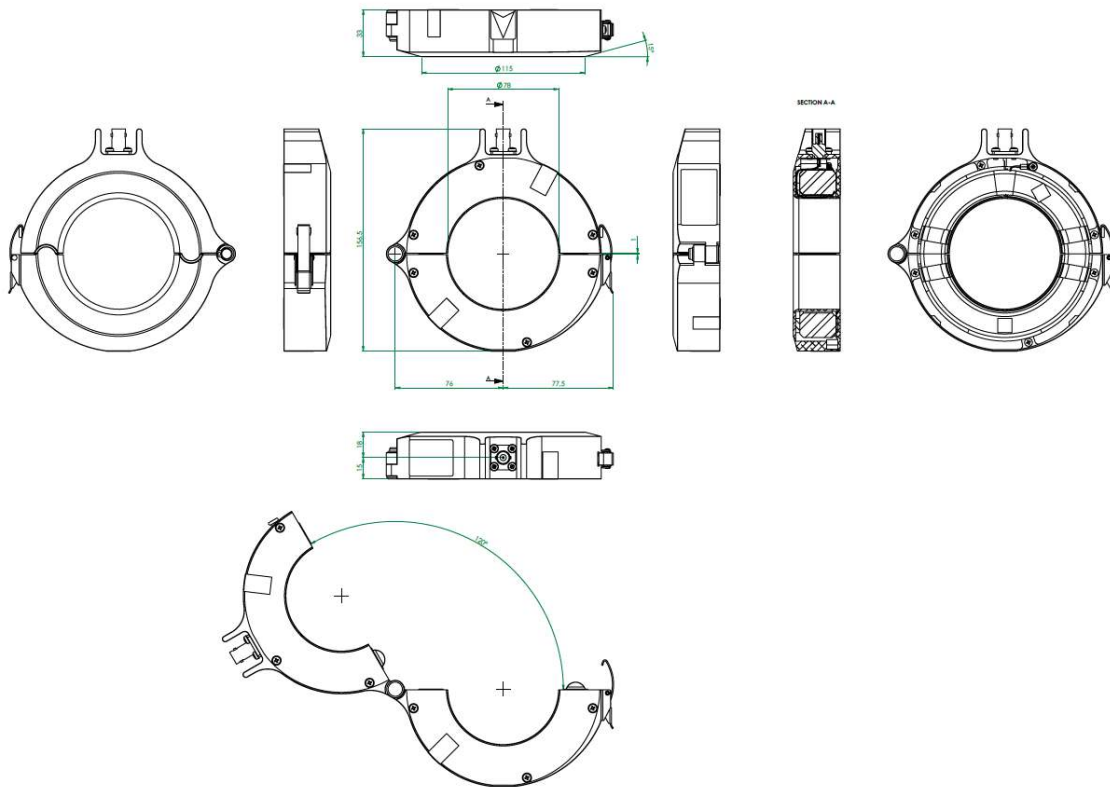
1MHz ÷ 80MHz  
19mV/mA  
50Ω  
Φ 78mm  
-20°C +70°C

# HFCT 78mm

## 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.

**ALTANOVA**  
GROUP  
[www.altanova-group.com](http://www.altanova-group.com)

**TECHIMP**  
TECHIMP - ALTANOVA GROUP  
Via Toscana 11,  
40069 Zola Predosa (Bo) - Italy  
T +39 051 199 86 050  
Email [sales@altanova-group.com](mailto:sales@altanova-group.com)

**isa**  
ISA - ALTANOVA GROUP  
Via Prati Bassi 22,  
21020 Taino (Va) - Italy  
T +39 0331 95 60 81  
Email [isa@altanova-group.com](mailto:isa@altanova-group.com)

**IntelliSAW**  
intelliSAW - ALTANOVA GROUP  
100 Burrtr Rd  
Andover, MA 01810, USA  
T +1 978-409-1534  
Email [contact@intellisaw.com](mailto:contact@intellisaw.com)