Data Sheet

high performance TEM PD sensors

TEM Antenna

TEM antenna is a partial discharge sensor designed to receive electromagnetic (EM) emissions from a PD occurring in the monitored asset (like MV switchgears or LV and MV induction motors fed by power electronic impulses). It is a broadband antenna with a flat response which makes TEM suitable in a number of different applications. It has been optimized to operate in a frequency range typical for PD activity and it was designed to provide maximum sensitivity and high gain. Its compact and robust design (passive sensor) makes TEM the optimal sensor for direct installation on medium voltage Switchgears and motors. It can be virtually applied in any electrical equipment provided that it has apertures or EM transparent surfaces. Contact our sales department for consulting.

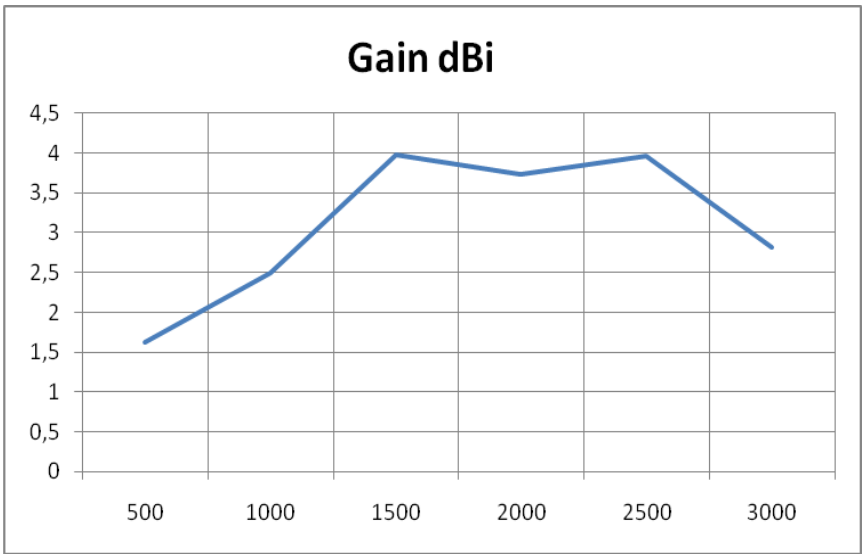


Specifications

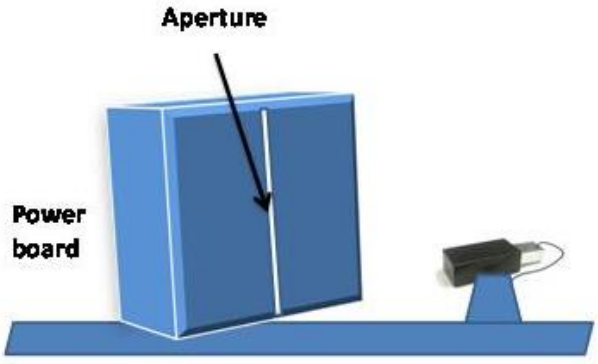
Bandwidth:	**100MHz – 3GHz, stand alone sensor Techimp Frequency Shifter recommended**
Gain:	**1.8-4.25 dBi**
Typical VSWR:	**5:1**
3dB Beam width:	**100° - 210°**
Polarization:	**Linear**
Impedance:	**50 Ohm**
Overall Dimensions:	**80 x 150 x 50 mm**
Weight (without the RF cable):	**250 g**
Connector:	**Type N**
Power Supply:	**Only for optional devices (frequency shifter)**
Installation:	**In proximity of EUT apertures**
Operational limits:	**Env. Temp: -20-650C; Env. RH: 0-100%**

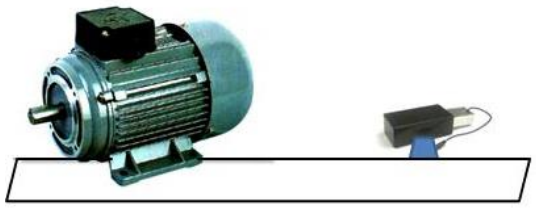
TEM Antenna

TEM Antenna Gain Profile



TEM Installations Specifications





Suitable For

MOTOR | GENERATOR | PWM VSD | SWITCH BOARDS | OUTDOOR INSULATOR | HV TRAFO | MV TRAFO | 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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