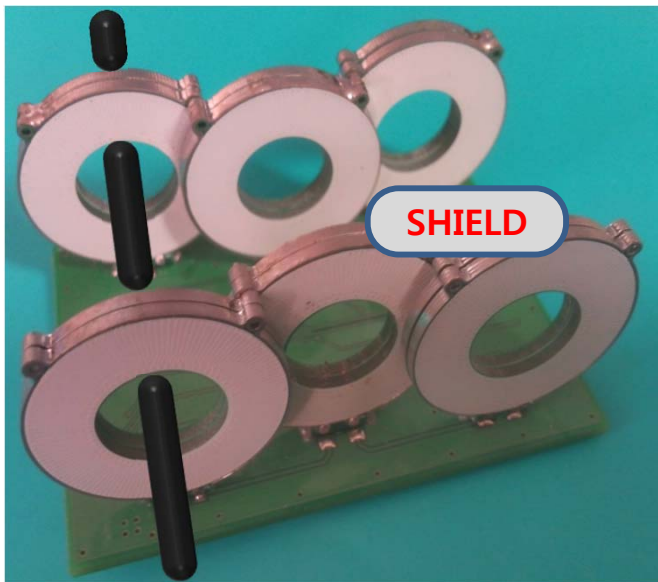# Shielded PCB Rogowski Coil

Rogowski Coil CT Technology A Rogowski coil is an 'air-core' toroidal coil placed round the conductor. The alternating magnetic field produced by the current induces a voltage in the coil which is proportional to the rate of change of current. The direct output from the coil is given by Vout=M dI/dt Where M is the mutual inductance of the coil and dI/dt is the rate of change of current. To complete the transducer the voltage is integrated electronically so that the output from the integrator is a voltage that accurately reproduces the current waveform.
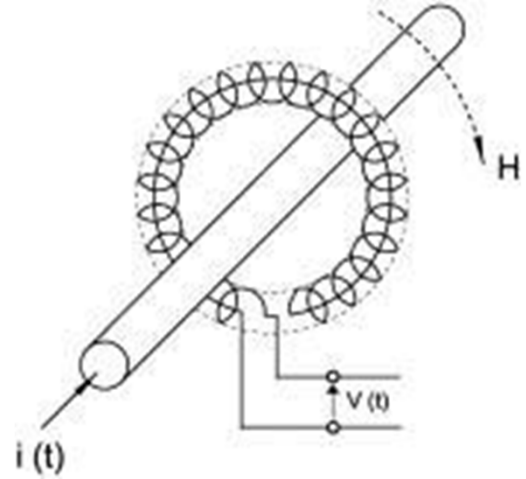
- ● No saturation
- ● No distortion
- ● Wide measuring range
- ● Easy calibration
- ● Vector filter
- ● Good portability

SHIELD

Sensor Ass'y with Shield
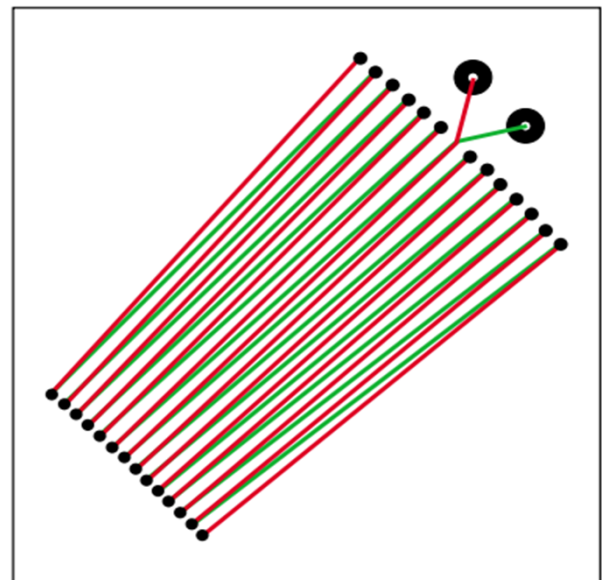
Winding

Our patented technology overcomes extra magnetic field and noise. Therefore your product will be more robust if you use it.

INFINIOR CORPORATION

Shielded PCB Rogowski Coil

Coil Winding

With a Rogowski coil it is important to ensure that the winding is as uniform as possible. A non-uniform winding makes the coil susceptible to magnetic pickup from adjacent conductors or other sources of magnetic fields. We have developed special machines for making accurate windings. Coils come in a range of styles including rigid and flexible coils but we have developed several other variations to meet specific needs. Therefore PCB process is cost effective and even.
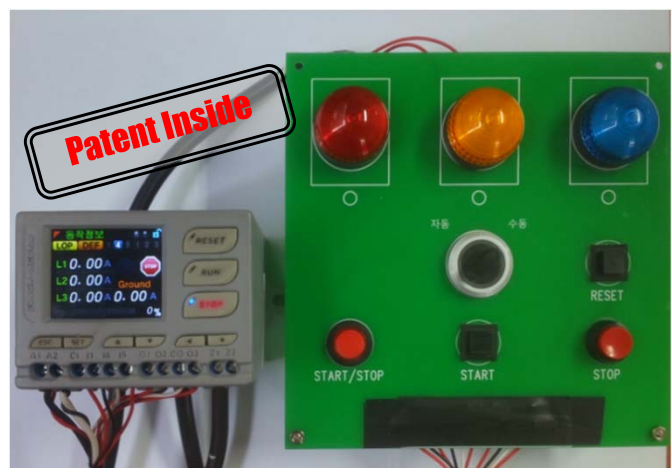

ITEM	SPEC.	COMMENT
Material	PCB/FR-4	2/4 Layer
Frequency	20Hz ~ 1KHz	
Linearity	±2%	Depend on H/W
Operating Temp.	-20 ~ 85°C	
Output Signal	Adjustable	

Example

MPR

Motor protection is used to prevent damage to the electrical motor, such as internal faults in the motor. Also external conditions when connecting to the power grid or during use have to be detected and abnormal conditions must be prevented. Additionally, the protection relay prevents the disturbance to spread back into the grid.

Our patented technology overcomes extra magnetic field and noise. Therefore your product will be more robust if you use it.