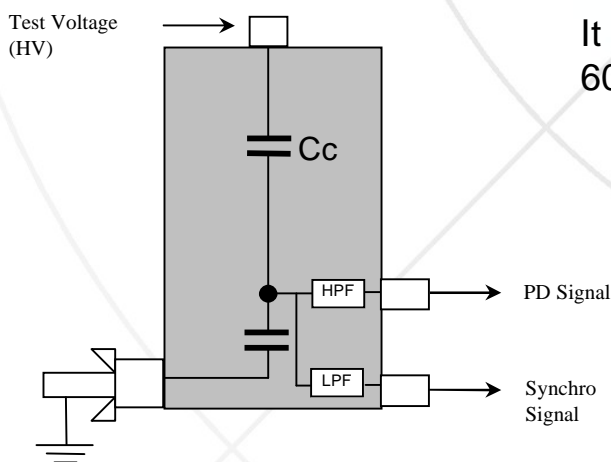


# Capacitive Divider



TechImp Capacitive Divider is a quadrupole suitable to Partial Discharge measurements. It can be chosen as detection sensor for TechImp PDSysystems. By means of an internal coupling capacitor ( $C_c$ ), it provides both synchronization and PD signal. The first one is filtered through a High Pass Filter, which allows test voltage rejection; the second one is filtered through a Low Pass Filter. The coupling capacitor is PD free ( $<2\text{pC}$ ,  $50\text{kV}$ ,  $50\text{-}60\text{Hz}$ ).



It is suitable only for 50-60 Hz applications.

Dimensions:

- $\text{max}$  155 mm
- $H$   $\text{max}$  475 mm

## Specifications

Nominal Capacitance ( $C_c$ )	Phase shift (Synchro out vs in)	High voltage for 1V Synchro out	Maximum allowed input voltage	50 Hz Attenuation
1 nF $\pm$ 5%	$<1^\circ$ (50-60 Hz)	1.0 kV	50kV rms (50-60 Hz)	$>140$ dB (50-60 Hz)