

CALIBRATION PROBE P 506



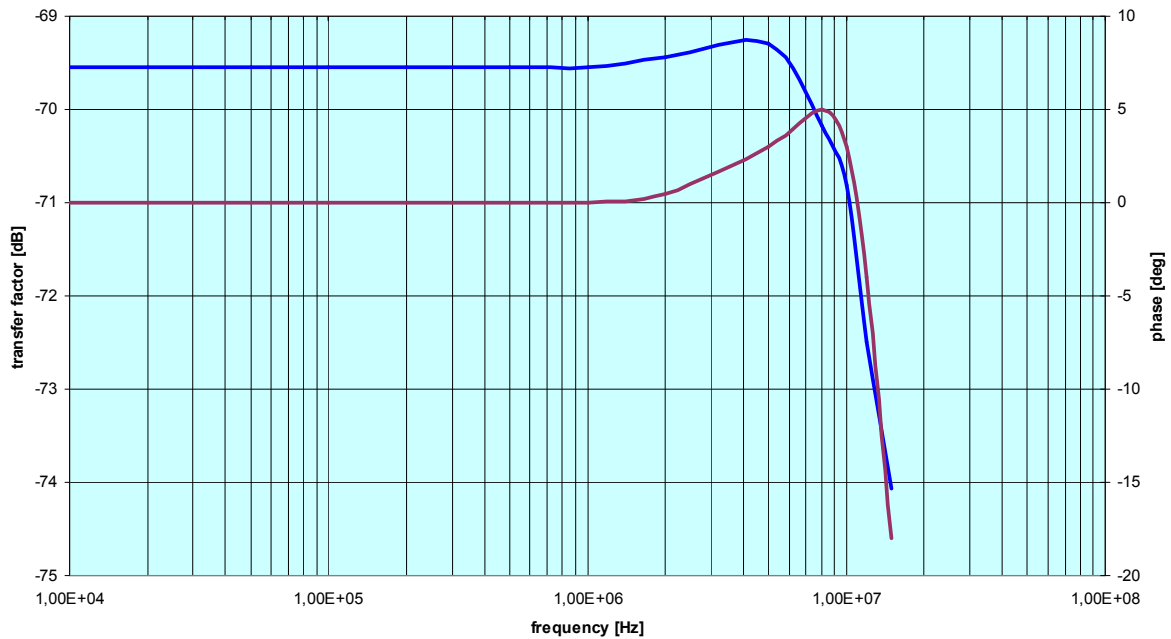
The calibration probe P 506 is suitable for sensing of impulse voltage 1.2/50 or 10/700 μ s which is made by SURGE generator. These pulses reach the amplitude up to 30kV in frequency range to 1 MHz. The P506 is designed as a stable RC divider with input impedance of 150k Ω /12pF. The calibration probe is connected to 50 Ω cable of 0.5m with termination.

Warning! Do not use the probe without 50 Ω termination!

Technical specification:

Transfer factor	1/3000
Upper frequency	9MHz (1dB)
Maximum impulse voltage	30kV for 1,2/50 μ s and 12kV for 10/700 μ s
Maximum rms voltage	550V
Input impedance	150k Ω /12pF
Dimensions	53 \times 26 \times 153mm

P 506 - frequency characteristic



Instructions for use:

1. Connect the no terminated side of 50Ω cable to the probe;
2. Check the input and output impedance of the probe by multimeter;
3. Connect the termination of probe's cable to oscilloscope;
4. Set the bandwidth of scope to 20MHz to suppress parasitic oscillations; input impedance of scope is 1MΩ;
5. Place the probe on insulating pad of 5cm thickness or higher; connect the probe to measured point and minimize the loop of grounding circuit or make a radial grounding.
6. Now you can measure impulses;
7. Check the dividing ratio of probe within periodical calibration;