

7 Specifications

NOMINAL CHARACTERISTICS

Nominal characteristics describe parameters and attributes which are guaranteed by design, but do not have associated tolerances.



Maximum Continuous Input Current	15 Amp peak Refer to figure 7-1, Input current vs. frequency.
Maximum Peak Current	30 Amp peak, 50 Amp at pulse width of < 10 μ sec.
Insertion Impedance	Refer to figure 7-2
Intended Output Load	1 M Ω
Maximum Permitted Circuit Voltage	300 V, CAT I (Insulated conductor).

WARRANTED CHARACTERISTICS

Guaranteed at 23° C \pm 3° C (73° F \pm 5° F) after power has been applied for 30 minutes.

Low Frequency Accuracy	\pm 1% of reading \pm 1 mV.
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TYPICAL CHARACTERISTICS

Sensitivity	20 mA/div to 10 A/div.
Output voltage	0.1 V/A
Sensitivity Temperature Coefficient	\pm 2% or less. (from 0° to +40° C, 32° F to 104° F).
Noise	Equivalent to 2.5 mA rms or less (Bandwidth of measuring instrument: 20 MHz).
Bandwidth	DC to 50 MHz.
Rise Time	< 7 ns.

CP015 Current Probe

ENVIRONMENTAL CHARACTERISTICS



Temperature Operating	0 to 40° C (32° F to 104° F) at 80% relative humidity.
Storage	-10° C to 50° C (14° F to 122° F) 80% relative humidity.
Usage	Indoor
Altitude	2000 m (6562 feet)
Effect of External Magnetic Field	Equivalent to a maximum of 20 mA (In a 60 Hz, 400 A/m magnetic field).

PHYSICAL CHARACTERISTICS

Dimensions Probe	
Length	175 mm (6.9 inch)
Width	18 mm (0.7 inch)
Height	40 mm (1.57 inch)
Dimensions Compensation Box	
Length	65 mm (2.6 inch)
Width	39 mm (1.5 inch)
Height	24 mm (0.9 inch)
Weight	210 g (7.4 oz.)
Maximum diameter of conductors to be measured	5 mm (0.2 inch)

COMPLIANCES AND CERTIFICATIONS

CE Declaration of Conformity

The probe meets requirements of the EMC Directive 89/336/EEC for Electromagnetic Compatibility and Low Voltage Directive 73/23/EEC for Product Safety.

Electromagnetic Emission:	EN 55011:1998 Class B	Radiated emissions
Electromagnetic Immunity:	EN 61000-4-2:1995	Electrostatic Discharge
	EN 61000-4-3:1996	RF Radiated Electromag- netic field

Specifications

* Meets Performance Criteria "B" limits at certain test levels, during the disturbance, product undergoes a temporary degradation or loss of function of performance which is self recoverable.

Low Voltage Directive: EN 61010-1:1993+A2:1995

Safety requirements for electrical equipment for measurement, control and laboratory use.

Part 1: General requirements

Part 2-031: Particular requirements for hand-held probe assemblies for electrical measurement and test

Part 2-032: Particular requirements for hand-held current clamps for electrical measurement and test

The probe has been qualified to the following

EN 61010-2-031:1994

EN 61010-2-032:1995

Overvoltage Category I (anticipated transient overvoltage 1500 V), Pollution Degree 2

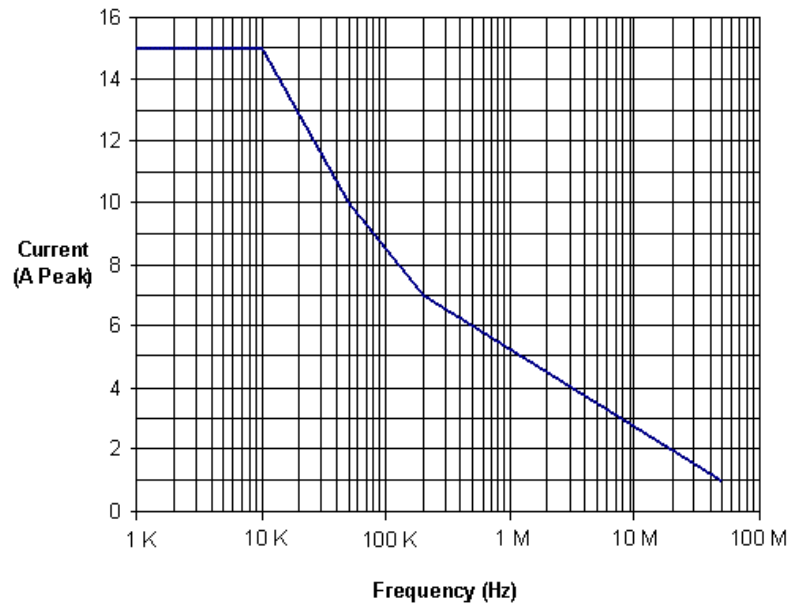


Figure 7-1. Maximum Input Current vs Frequency

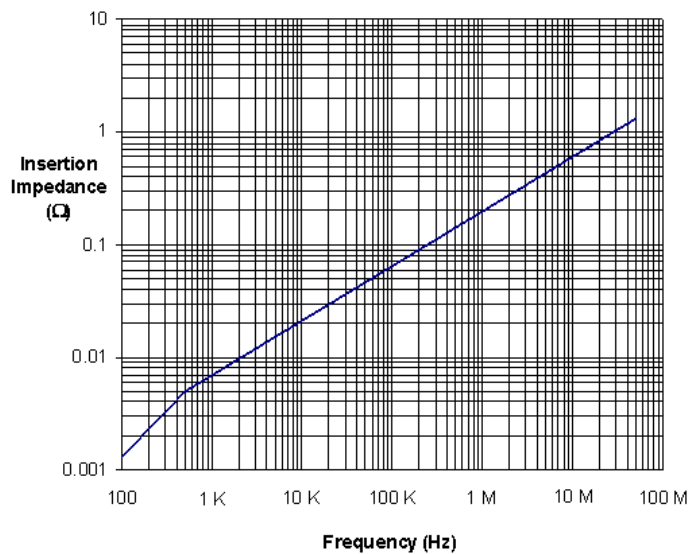


Figure 7-2. Insertion Impedance vs Frequency