

# AC Current Probes

CT1 \* CT2 \* CT6

## CHARACTERISTICS



CT6. - Current Probe.

[Features](#)

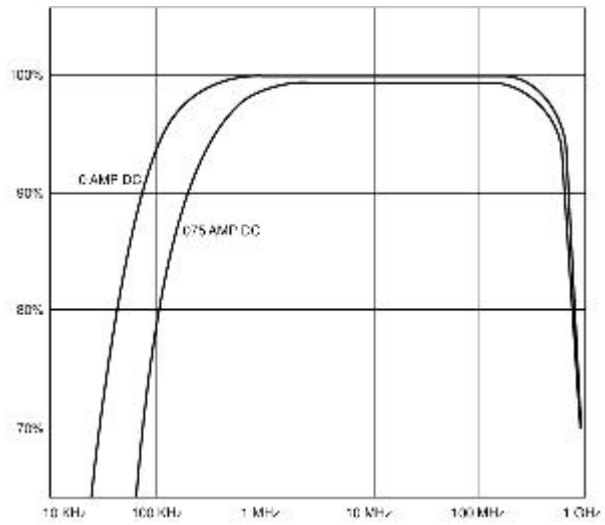
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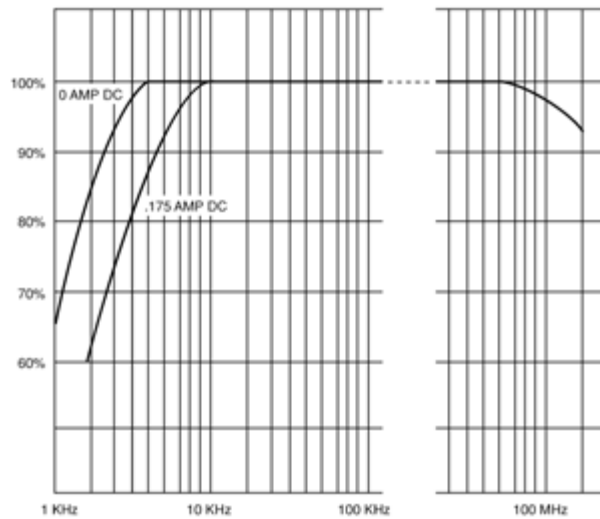
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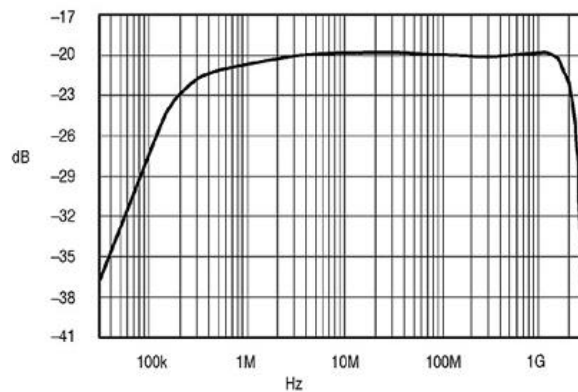


CT1 Typical Frequency Response.



CT2 Typical Frequency Response.

CT6 Typical Frequency Response.



### CT1, CT2, & CT6 Characteristics

| Parameter                  | CT1                   | CT2                   | CT6                  |
|----------------------------|-----------------------|-----------------------|----------------------|
| Bandwidth (typical)        | 25 kHz to 1 GHz       | 1.2 kHz to 200 MHz    | 250 kHz to 2 GHz     |
| Risetime                   | 350 p Sec             | 500 p Sec             | 200 p Sec            |
| Sensitivity (into 50 Ohms) | 5 mV/mA               | 1 mV/mA               | 5 mV/mA              |
| Accuracy                   | ±3%                   | ±3%                   | ±3%                  |
| Magnetizing Inductance     | 6 microHenries        | 7 microHenries        | 1 microHenry         |
| Leakage Inductance         | 2.4 nH                | 1 nH                  | 1.5 nH               |
| Insertion Impedance:       |                       |                       |                      |
| @ 10 MHz                   | <1 Ohm                | 0.1 Ohm               | 1.1 Ohm              |
| @ 100 MHz                  | 2 Ohm                 | 0.5 Ohm               | 1.3 Ohm              |
| @ 1 GHz                    |                       |                       | 11.9 Ohm             |
| Max. Bare Wire Size        | #14 wire              | #16 wire              | #20 wire             |
|                            | 1.78 mm<br>(.070 in.) | 1.32 mm<br>(.052 in.) | 0.8 mm<br>(.031 in.) |

|                               | (0.070 in.)                    | (0.052 in.)                    | (0.032 in.)                   |
|-------------------------------|--------------------------------|--------------------------------|-------------------------------|
| Max. Bare Wire Voltage:       |                                |                                |                               |
| RMS                           | 175 V <sub>RMS</sub> CAT 1     | 175 V <sub>RMS</sub> CAT 1     | 30 V <sub>RMS</sub> CAT 1     |
| Peak                          | 1000 V *                       | 1000 V *                       | 30 V                          |
| DC                            | 175 V                          | 175 V                          | 30 V                          |
| Max. Peak Pulse Current       | 12 A                           | 36 A                           | 6 A                           |
| Max. Continuous Current (RMS) | 450 mA                         | 2.5 A                          | 120 mA                        |
| Amp-second Product            | 1 x 10 <sup>-6</sup> A*Sec     | 50 x 10 <sup>-6</sup> A*Sec    | 0.25 x 10 <sup>-6</sup> A*Sec |
| L/R Time Constant (droop)     | >6.35 μsec                     | >160 μsec                      | 0.4 μsec                      |
| Propagation Delay             | 3.25 nSec                      | 6.1 nSec                       | 5.2 nSec                      |
| Safety                        | UL3111-1, CSA1010.1, EN61010-1 | UL3111-1, CSA1010.1, EN61010-1 |                               |

\* (<3.25% Duty Factor)

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Except CT6

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