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# ATT10BNCS

**Wide-Band Attenuator For Use With  
LILCO Terminated Current Transformers**

Datasheet



ATT10BNCS		
<b>Electrical Specifications</b>		
Attenuation ratio	20 dB	
Attenuation tolerance	±0.25 dB	
Frequency range	DC - 50 MHz	
Output impedance	50 Ω ± 1 %	
Input power, RMS	2.25 W	
<b>Maximum Rated Input Peak Voltage, No Measurement Category, not in CAT II, III, IV (*)</b>		
Pollution Degree	2	
No Measurement Category	100 V	
<b>Mechanical Specifications</b>		
Mechanical size	approx. 97 x 35 x 29 mm	
Weight	approx. 300 g	
<b>Environmental Specifications</b>		
Altitude	operating	up to 2000 m
	non-operating	up to 15000 m
Temperature Range	operating	0 °C to +50 °C
	non-operating	-40 °C to +71 °C
Maximum Relative Humidity	operating	80 % relative humidity for temperatures up to +31 °C, decreasing linearly to 40 % at +50 °C
	non-operating	95 % relative humidity for temperatures up to +40 °C

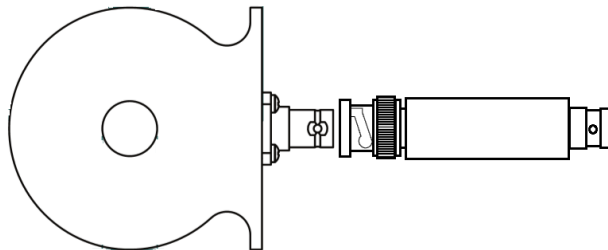
This product comes with 2 years warranty. Specifications that are not marked as guaranteed are typical.

## Description of Functions

The attenuator is connected directly to the BNC interface of a LILCO current transformer, see picture below. The advantages of using an attenuator with a terminated LILCO current transformer include:

- Extended low frequency cut off point in Hz by a factor of 10.
- Reduced droop in %/ms.
- Increased I-t capability in mA's.
- Reduced output in V/A by factor 10.

HF characteristics are preserved.



## Operating Instructions

- Connect the unit with the side on label marked with "Current Transformer" to a LILCO Current Transformer.
- Connect your measurement device to the side on label marked with "Oscilloscope".

## About LILCO Current Transformers

PMK LILCO wide-band terminated current transformers are capable of faithfully reproducing current waveforms over a bandwidth, which extends from the sub-hertz area to greater than 50 MHz. For measurements of pulses up to 25 kA or small currents in the mA range in LF or RF power electronic circuits the PMK current transformers of the LILCO series are ideally suited. Only use insulated cables for the conducting wire, which is placed into the LILCO current transformer.

- 0.04 Hz – 50 MHz bandwidth models.
- Models with peak current capabilities from 500 A to 25 kA.
- Ultra low droop.
- High I-t capability.
- Very high DC saturation currents.
- Integrated 50 Ω termination.
- BNC interface.
- 2 years warranty.



## **Manufacturer**

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