EN

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ATT10BNCS

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

Datasheet

Specifications

The Wide-Band Attenuator ATT10BNCS extends the specifications of LILCO® Terminated Current Transformers.

	ATT10BNCS
Electrical Specifications for 1MΩ Termination	
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
Maximum Rated Input Peak Voltage, No Measurement Category, not in CAT II, III, IV	
Pollution Degree	2
No Measurement Category	100 V

Mechanical Specifications	
Dimensions (W x H x D)	approx. 97 mm x 35 mm x 29 mm
Weight	approx. 300 g

Environmental Specifications		
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

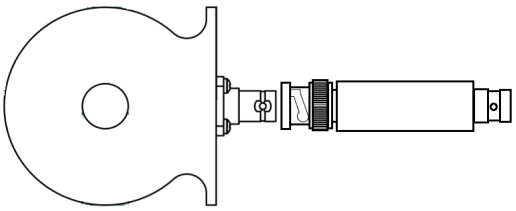
This product comes with 2 years warranty. Specifications that are not marked as guaranteed are typical.

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 by factor 10
- Reduced output in V/A by factor 10.

HF characteristics are preserved.



Note, the attenuator ATT10BNCS requires a measuring instrument with 1 MΩ input termination. The measurement device input termination is equal to the LILCO® output BNC termination.

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

With bandwidths ranging from mHz to >60 MHz and input currents ranging from mA up to 25 kA the LILCO® series of PMK’s current transformers enables precision high bandwidth AC current measurements which are required for a broad range of measurement applications. The current transformers are capable of accurately measuring large pulse or continuous input currents while electrical shielding between the input and output reduces the influence of electromagnetic fields on the output.

Only use insulated cables for the conducting wire, which is placed into the LILCO current transformer.

Key Features

- Accuracy <2 % over broad frequency range
- Ultra low droop for improved low frequency accuracy
- High I·t capability
- Very high DC saturation currents
- Minimal phase shift
- Galvanic isolation to the circuit under test
- Integrated precision 50 Ω termination
- Negligible insertion resistance
- Passive device that does not require a power source
- Accurate reproduction of square, pulse, sine and other waveforms
- Flexible specifications with output termination selection
- Customized models available on request
- Very high DC saturation currents.
- Integrated 50 Ω termination.
- BNC interface.
- 2 years warranty.

Notes

Manufacturer

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Specifications are subject to change without notice.