

Accessories for DLM3000/5000 series

10:1 Passive Probe **702907** (Wide operating temperature range)

“-40 to +85°C”
Wide operating
Temperature
range

Best solution for accelerated testing and validation methods that include temperature cycling



Superior solidity and durability

To withstand the usage under severe environmental conditions, these probes have been tested to withstand a cable mount pulling force of 60 N and have been tested over 500 temperature cycles (Sample test under our company standard).

Wider operating temperature range

The operating temperature range of conventional passive probes is similar to that of the measurement instrument used (5 to 40°C). The 702907 passive probe however have been designed to be used under a much wider operating temperature range (–40 to +85°C). These probes are therefore ideal for use in accelerated testing and validation methods where temperature cycling is part of the test procedure.

Probe tip conversion adapters (Sold separately)

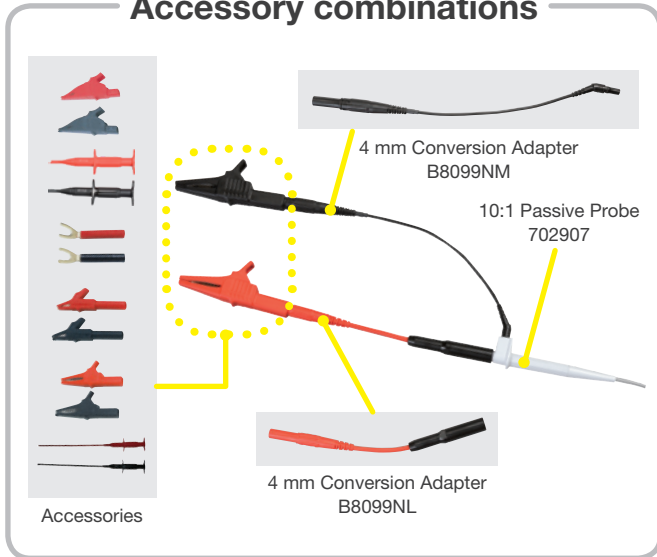
A range of probe tip conversion adapters is available to connect the probe to the application in the most convenient way such as: safety mini clips, fork terminal adapters and small or large alligator clips. Also 4 mm conversion adapters with pincher tip/safety banana connectors are available.

Long 2.5-meter probe length

The probes are equipped with longer cables and as such the total length including the cable is 2.5 meter. This way it is easier to keep the measuring instrument away from the high temperature measurement point. Longer probe lengths are also required to connect a measuring instrument to a temperature controlled chamber.



Accessory combinations



Accessories (-40 to +85°C)

Model	Name	Description	
B8099NL	4 mm Conversion Adapter (Pincher tip end)	1000 V (DC+ACpeak) CAT II	
B8099NM	4 mm Conversion Adapter (Ground lead end)	1000 V (DC+ACpeak) CAT II	
701954	Alligator Clip (Dolphin type)	1000 Vrms-CAT III, 1 set each of red and black	
758928	Pincher tip	1000 Vrms-CAT III, 1 set each of red and black	
758921	Fork Terminal Adapter	1000 Vrms-CAT II, 1 set each of red and black	
758922	Small Alligator-Clip Adapter	300 Vrms-CAT II, 1 set each of red and black	
758929	Large Alligator-Clip Adapter	1000 Vrms-CAT II, 1 set each of red and black	
701906*	Long Test Clip	1000 Vrms-CAT II, 1 set each of red and black	

Due to the nature of this product, it is possible to touch its metal parts. Therefore, there is a risk of electric shock, so the product must be used with caution.
*The operating temperature range of the 701906 is -40 to +65°C

Application

- Accelerated testing and validation of automotive parts and designs inside a temperature chamber.
- Environmental testing of power converters designed for outside installation such as inverters and transformers used for solar photo voltaic and wind turbine power generation.
- Evaluation and environmental testing of sensors and actuators used in automotive, railway, aerospace and marine applications.
- Testing of home appliances such as air-conditioners, cookers and refrigerators.



Specifications

Item	Specification
Supported Model	DLM3000/5000 series
Frequency Band	DC to 200 MHz (-3 dB)
Connector type	BNC (with the probe ID pin)
Input resistance/Capacitance*1	10 MΩ±2%/18.0 pF (typical)
Maximum input voltage	±1000 V (DC+ACpeak) CAT II Between the pincher tip and Ground
Operating temperature range	-40°C to +85°C
Operating humidity range	<80% (at 40°C) (No condensation)
Probe Length	2.5 m
Attenuation ratio*1	10:1 (Fix) ±2% (5 to 40°C), ±3% (-40 to 5°C, 40 to 85°C)
Standard Parts	Pincher tip, Safety ground lead, Marker tip, User's manual

*1: In conjunction with a measuring instrument with an input impedance of 1 MΩ±1%.

Model

Model	Name
702907	10:1 Passive Probe (Wide operating temperature range, for non-isolated BNC)

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