

AXL8702 Flex Inductive Load



TECHNICAL DATA SHEET

Features

- Programmable wide inductance range from 10 μ H to 500 μ H
- Saturation current of up to 400 A
- Very low resistance up to 30 m Ω at 500 μ H
- Calibration via system interface

PXI

VXI

LAN

cPCI

PXIe

GPIB

USB

RS232
485

external
PCIe

Product Information

The AXL8702 Flex Inductive Load is designed for operation with the DTS8710 controllers. The inductance can be configured on the fly

through the system interface of the controller between 10 μH and 500 μH . No additional power supply is required.

General	Specification	Comment
Operating temperature	0 ... 40°C	
Storage temperature	-25 ... 70°C	
Weight	≈25 kg	
Dimensions	19", 3U (W: 482mm, H: 134mm, D: 530mm)	

Saturation Current

The saturation current depends on the selected inductance. The AXL8702 is designed to support a maximum system energy of 4,000 mJ.

Acquisition	Specification	Comment
Maximum current	400 A	
Selectable preset values (μH)	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500	Software selectable
Resistance	10 μH ... 500 μH <15 m Ω + 0.025 m Ω /(μH)	

Value	Accuracy	Value Increment
At 10 μH ... 30 μH	±1 μH ±1%	2 μH
At 35 μH ... 100 μH	±2.5 μH ±1%	5 μH
At 110 μH ... 300 μH	±5 μH ±1%	10 μH
At 320 μH ... 500 μH	±10 μH ±1%	20 μH

Notes: All product data are specified for 1 year at an ambient temperature of 23°C ±5°C (after 1 hour warm-up time). Product specification and description in this document are subject to change without notice.