

3-phase high current filter



Description

- High power filter for rated currents up to 2500 A
- Very high attenuation
- Compact design for highest power

Standards

- IEC 60939
- UL 1283

Approvals

- VDE Certificate Number: pending
- UL File Number: E72928

Applications

- High voltage rating 760 VAC for IT mains supply
- Especially designed for high power applications such as: Frequency Converters, UPS-Systems, Inverters for Photovoltaic Systems and Wind Energy
- Suitable for use in equipment according to IEC/UL 60950

Weblinks

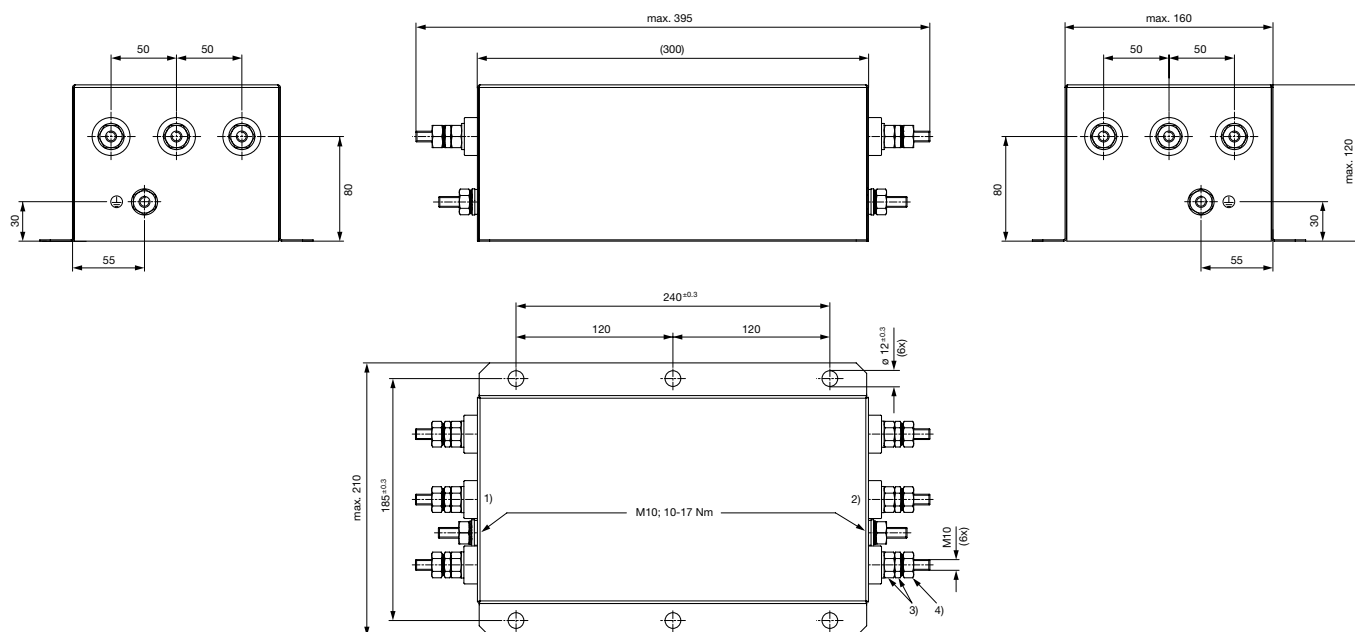
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

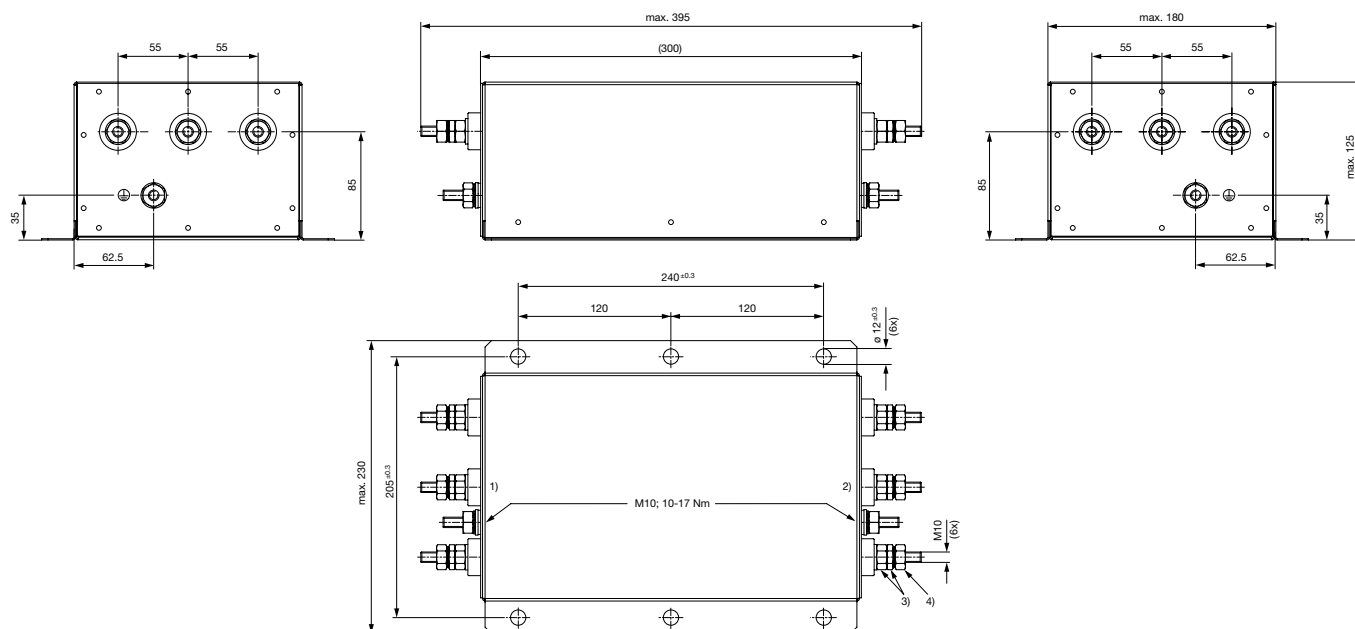
Rated Current	150 - 2500A @ Ta 50 °C
Rated voltage	520/760 VAC, 50/60 Hz
Approval for	150 - 2500A @ Ta 50 °C / 520/760/520/760 VAC; 50/60 Hz
Overload Current	1.5 x Ir
Leakage Current	< 33mA (440V / 50Hz)
Dielectric Strength	520 VAC:
	2.15 kVDC between L-L
	2.7 kVDC between L-PE
	Test voltage 2 sec
	760 VAC:
	3 kVDC between L-L
	3.1 kVDC between L-PE
Number of Filter Stages	3-stage
Weight	12 - 89 kg
Material: Housing	Metal / Aluminium
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis, from top
Terminal	Bolt and nut M10 for types up to 250 A and copper bars for types upwards of 320 A
Operating Temperature [°C]	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
MTBF	> 200'000 h acc. to MIL-HB-217 F

Case 3A



- 1) Line
- 2) Load
- 3) Lock-nut do not unscrew
- 4) Nut torque 10...17 Nm, keep lock-nut fastened



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Technical drawings of the M12x25 14-30 Nm torque wrench, showing dimensions in mm.

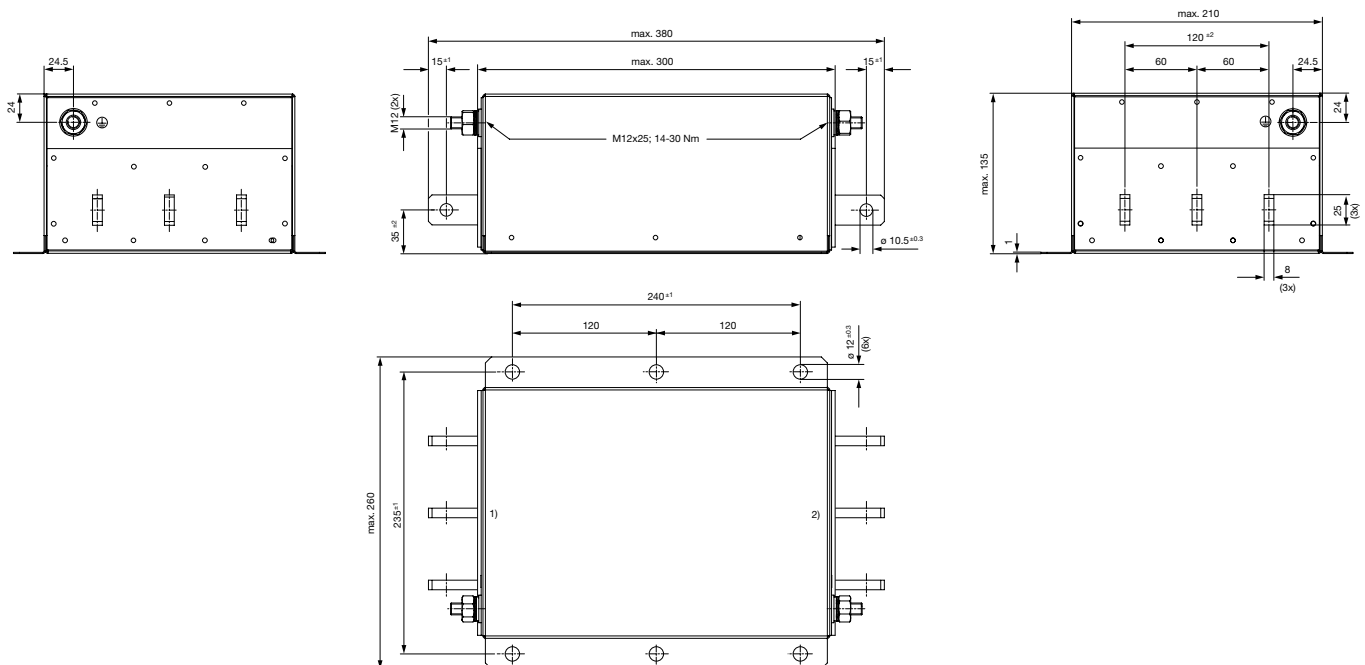
Front View (Left): Shows the handle with a width of 24.5 mm and a height of 24 mm. It features three finger loops and a central display window.

Side View (Top): Shows the handle with a maximum length of 380 mm and a maximum width of 300 mm. The handle has a diameter of $\phi 10.5^{+0.3}$ mm. The mounting bracket has a height of 15 mm and a width of 35 mm. The torque wrench is secured with M12x25 bolts, tightened to 14-30 Nm.

Top View (Right): Shows the handle with a maximum width of 210 mm and a maximum height of 115 mm. The handle has a width of 120 mm and a height of 24 mm. The mounting bracket has a width of 6 mm and a height of 25 mm. The torque wrench is secured with M12x25 bolts, tightened to 14-30 Nm.

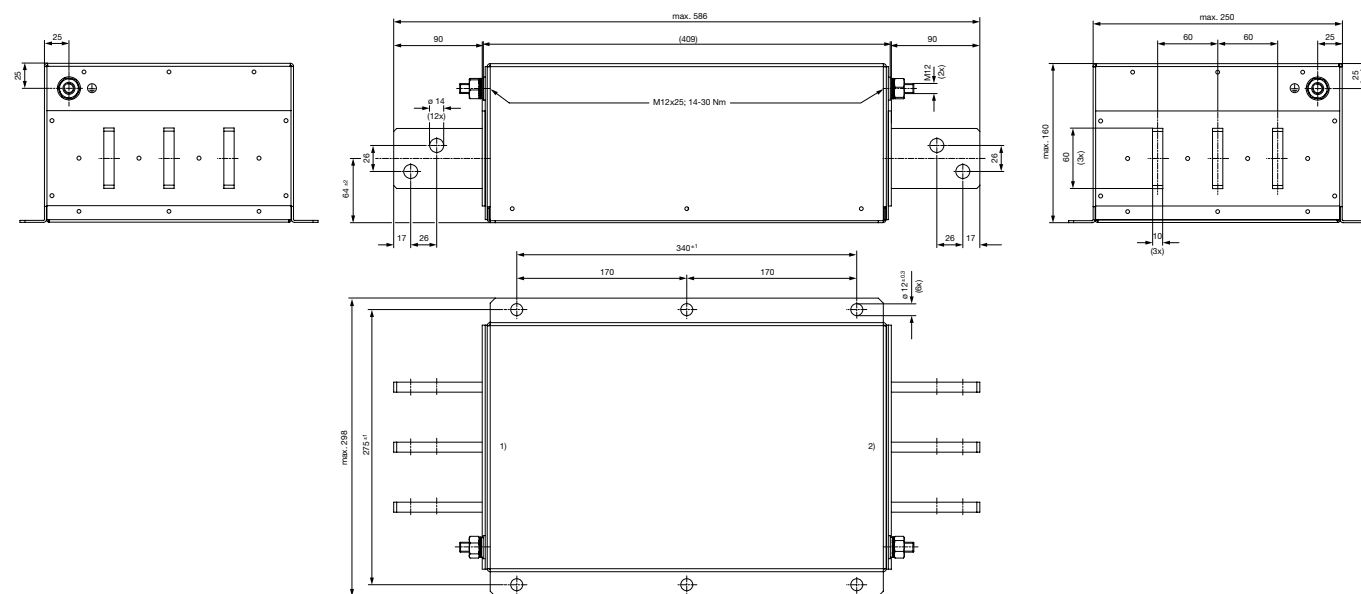
Bottom View (Bottom): Shows the handle with a maximum width of 260 mm and a maximum height of 235 mm. The handle has a width of 240 mm and a height of 120 mm. The mounting bracket has a width of 6 mm and a height of 25 mm. The torque wrench is secured with M12x25 bolts, tightened to 14-30 Nm.

Case 3D



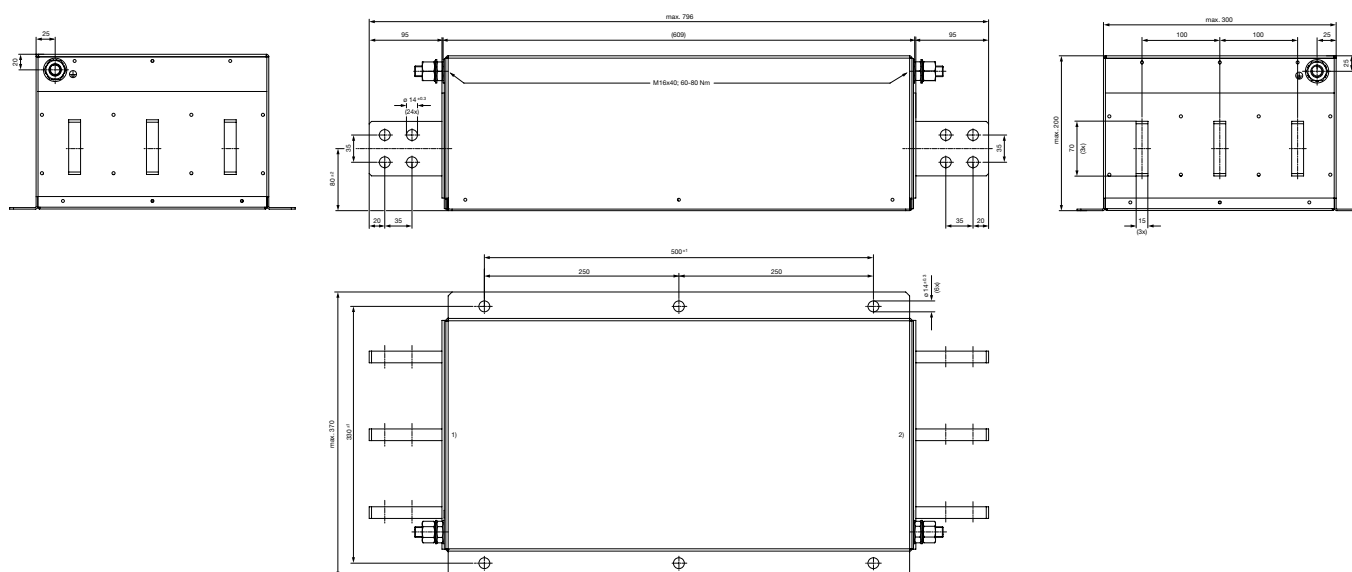
- 1) Line
- 2) Load

Case 3F



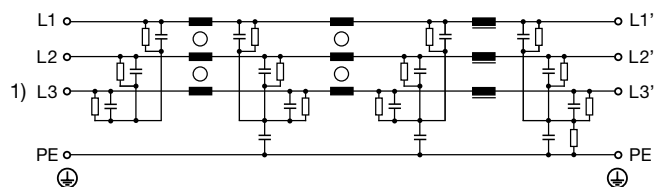
- 1) Line
- 2) Load

Case 3G



- 1) Line
- 2) Load

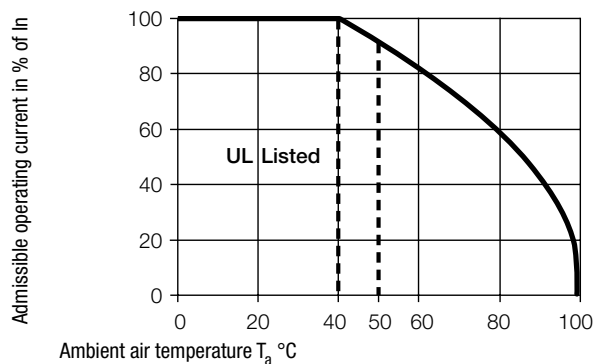
Diagrams



- 1) Line

Derating Curves

Permissible Working Current as a Function of Ambient Temperature



Attenuation Loss

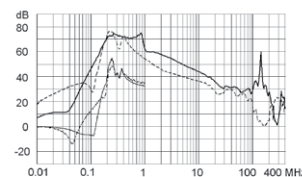
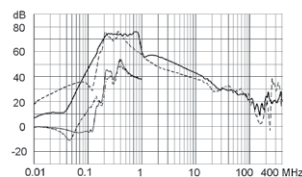
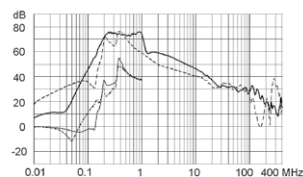
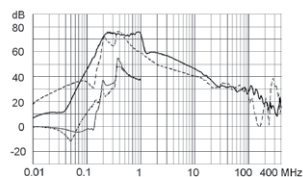
..... 0.1/100Ω differential mode 100/0.1Ω differential mode - - - differential mode ____ common mode

Standard version
150 A / 520 V

180 A / 520 V

250 A / 520 V

320 A / 520 V

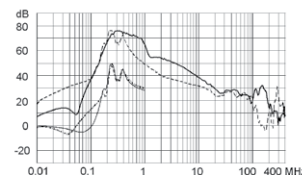
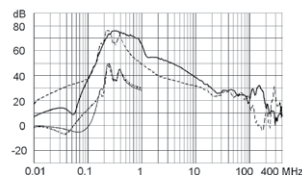
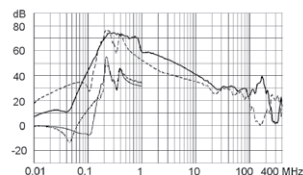
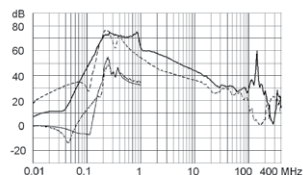


400 A / 520 V

600 A / 520 V

800 A / 520 V

1000 A / 520 V

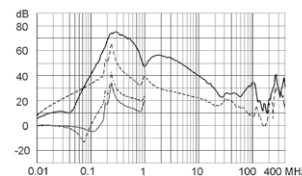
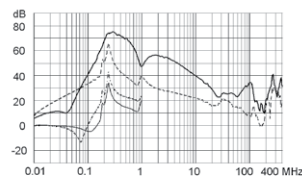
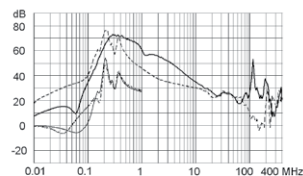
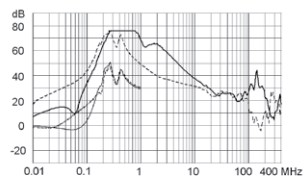


1600 A / 520 V

2500 A / 520 V

150 A / 760 V

180 A / 760 V

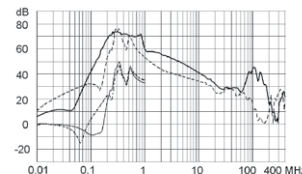
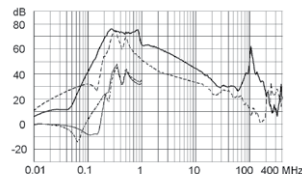
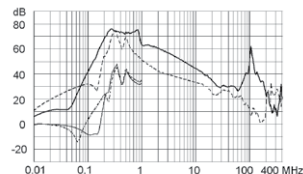
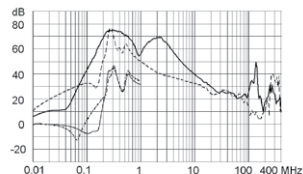


250 A / 760 V

320 A / 760 V

400 A / 760 V

600 A / 760 V

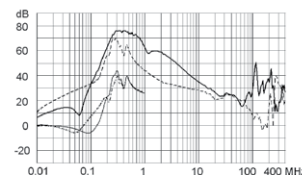
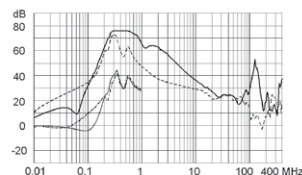
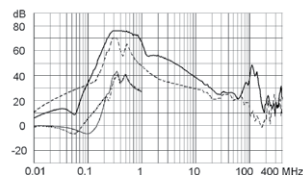
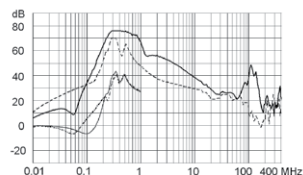


800 A / 760 V

1000 A / 760 V

1600 A / 760 V

2500 A / 760 V



All Variants

Rated Current @ Ta 50°C (40°C) [A]	Rated Voltage [VAC]	Power (kW)	Power _{loss} [W]	Weight [kg]	Housing	Order Number
150 (164)	520	75	8	12 kg	3A	FMCC-H93A-J532
180 (197)	520	90	11	12 kg	3A	FMCC-H93A-J832
250 (250)	520	132	13	13.5kg	3B	FMCC-H93B-K532
320 (350)	520	160	16	15.5kg	3C	FMCC-H93C-L252
400 (438)	520	220	25	15.5kg	3C	FMCC-H93C-M052
600 (657)	520	315	43	18 kg	3D	FMCC-H93D-U052
800 (876)	520	400	56	34 kg	3E	FMCC-H93E-Q052
1000 (1095)	520	560	88	34 kg	3E	FMCC-H93E-S052
1600 (1600)	520	900	150	38 kg	3F	FMCC-H93F-S652
2500 (2500)	520	1320	286	89 kg	3G	FMCC-H93G-T552

Rated Current @ Ta 50°C (40°C) [A]	Rated Voltage [VAC]	Power (kW)	Power _{loss} [W]	Weight [kg]	Housing	Order Number	
150 (164)	760	110	8	12 kg	3A	FMCC-I93A-J534	■
180 (197)	760	132	11	12 kg	3A	FMCC-I93A-J834	■
250 (250)	760	200	13	13.5 kg	3B	FMCC-I93B-K534	■
320 (350)	760	250	16	15.5 kg	3C	FMCC-I93C-L254	■
400 (438)	760	315	25	15.5 kg	3C	FMCC-I93C-M054	■
600 (657)	760	500	43	18 kg	3D	FMCC-I93D-U054	■
800 (876)	760	630	56	34 kg	3E	FMCC-I93E-Q054	■
1000 (1095)	760	710	88	34 kg	3E	FMCC-I93E-S054	■
1600 (1600)	760	1320	150	38 kg	3F	FMCC-I93F-S654	■
2500 (2500)	760	2000	286	89 kg	3G	FMCC-I93G-T554	■

■ Most Popular.

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging unit 1 Pcs

Mouser Electronics

Authorized Distributor

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