Appliance Inlet DC Filter, ECO Design, Front- or Rear Side Mounting



Screw-on mounting, front or back side PCB snap-in version MOLEX HCS-125 connector



Screw-on mounting, front or back side Quick connect terminals 6.3 x 0.8 mm AMP Universal MATE-N-LOK or MOLEX MLX



Snap-in mounting with wires (stranded) AMP Universal MATE-N-LOK or MOLEX MLX

See below:

Approvals and Compliances

Description

- Panel mount :
- Screw-on version from front or rear side, snap-in version from front side, PCB Version from rear side
- 2 Functions:
- Appliance Inlet, DC line filter in standard version
- Solder / quick connect / wires (stranded)

Characteristics

- Compact high-performance DC-filter
- Optimal shielding due to completely closed filter case, unpotted
- Applications:
- Mission Critical Ethernet LAN RoutersHigh uptime Ethernet LAN Switches
- Fiber Optic WAN Switches
- Fiber Optic WAN Multiplexer

Other versions on request

- Snap-in for panel thickness >2mm to 3mm
- flexible wire with various lenghts
- Quick connect terminals 4.8 x 0.8 mm
- Capacity CY 5.5 nF
- with long earth pin in connector

References

Last order date: 15.12.2021

Alternative: version 5120 for AC applications

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Accessories, Detailed request for product

Technical Data	
Ratings IEC	15A / 125VDC
Ratings UL/CSA	3 - 15 A @ Ta 40 °C / 125 VDC
Dielectric Strength	> 0.5 kVDC between (VAC 1 min., DIN EN 50155) > 1.1 kVDC between protective conduc- tor and live parts Test voltage (2 sec)
Allowable Operation Temperature	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Protection Class	Suitable for appliances with protection class I
Terminal	Quick connect terminals 6.3 x 0.8 mm Wire leads AWG 18 (10-15A AWG 16), 150 mm
Panel Thickness S	Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 2 mm (all steps with one variant)
Material: Housing	Themoplast / steel tin-plated, black / metallic, UL 94V-0

Line Filter	er DC Standard Version, UL 1283	
	Technical Details	
MTBF	> 3'900'000 h acc. to MIL-HB-217 F	

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: 5003

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40020642
. FU	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
<u>IEC</u>	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
(UL)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(UL)	Designed according to	UL 1283	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEG/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

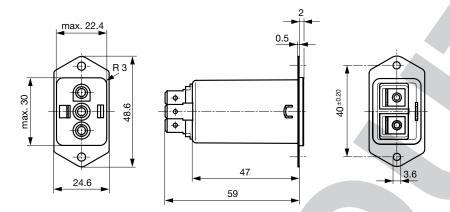
The product complies with following Guide Lines

Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
•	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

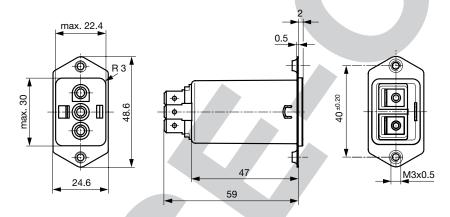


Dimension [mm]

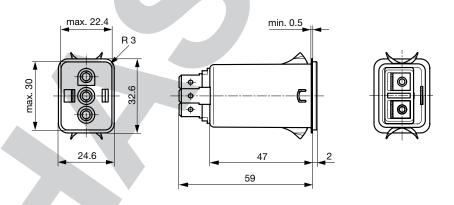
Front- or rear side mounting for screws with nuts or blind rivets, mating connector Molex HCS-125



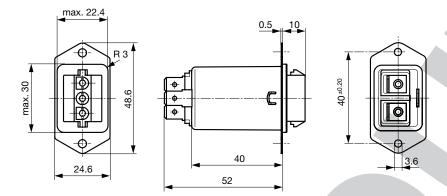
Rear side mounting with pre-formed, threaded holes for M3 screws, mating connector Molex HCS-125



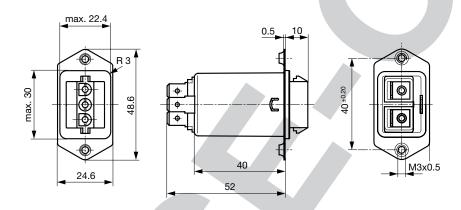
Snap-in mounting from front side, mating connector Molex HCS-125



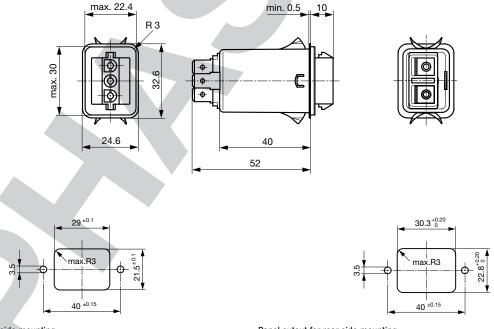
Front or rear side mounting for screws with nuts or blind rivets, mating connector AMP Universal MATE-N-LOK oder Molex MLX



Rear side mounting with pre-formed, threaded holes for M3 screws, mating connector AMP Universal MATE-N-LOK or Molex MLX

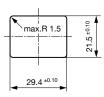


Snap-in mounting from front side, mating connector AMP Universal MATE-N-LOK or Molex MLX



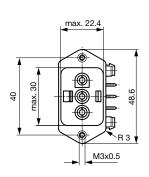
Panel cutout for front side mounting

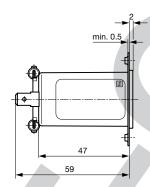
Panel cutout for rear side mounting

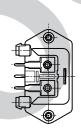


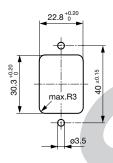
Panel cutout for snap-in mounting

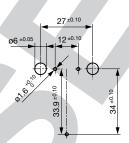
PCB snap-in rear-side mounting with pre-formed threaded holes for M3 screws, mating connector Molex HCS-125



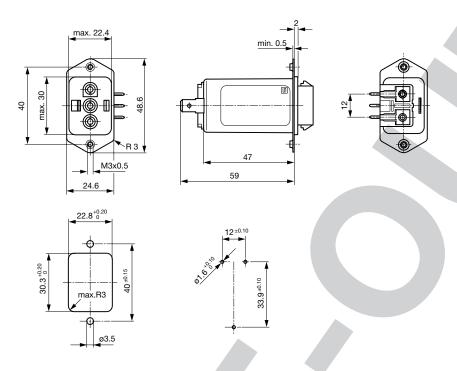




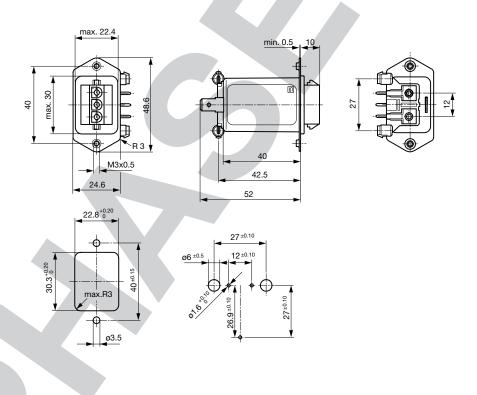




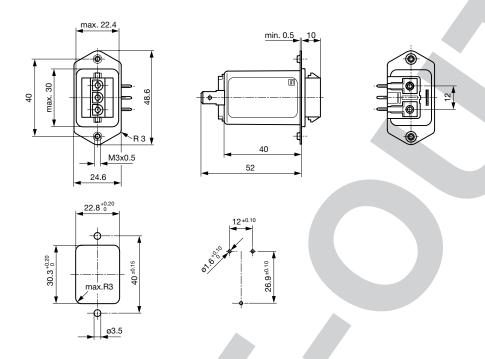
PCB rear-side mounting with pre-formed threaded holes for M3 screws, mating connector Molex HCS-125



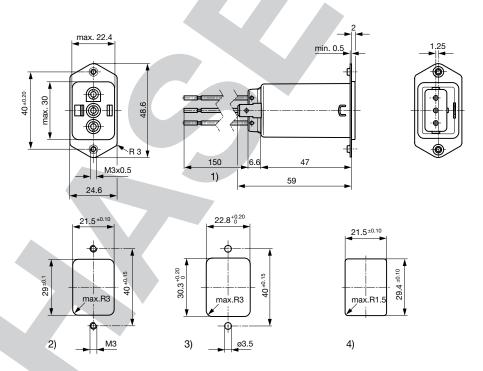
PCB snap-in rear-side mounting with pre-formed threaded holes for M3 screws, mating connector AMP Universal MATE-N-LOK or MOLEX MLX



PCB rear-side mounting with pre-formed threaded holes for M3 screws, mating connector AMP Universal MATE-N-LOK or Molex MLX



Screw and snap-in mounting with flexible wire, mating connector Molex HCS-125 or AMP Universal MATE-N-LOK



- 1) Flexible wire, standard length 150 mm or special length on request
- 2) Panel cut-out screw-on version, front-side mounting
- 3) Panel cut-out, screw-on version, back-side mounting
- 4) Panel cut-out snap-in version, front-side mounting

Plug Molex HCS-125



Molex HCS-125 Housing: Molex no. 03-12-1036 Female terminal (3 needed per housing): Molex no. 18-12-1222 Plug AMP / Molex MLX



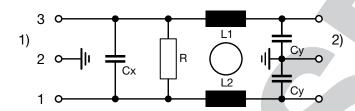
AMP Universal MATE-N-LOK Housing: AMP no. 1-480700-0 Female terminal (3 needed per housing): AMP no. 926901-1 Molex MLXHousing: Molex no. 50-84-1030 Female terminal (3 needed per housing): Molex no. 02-08-1002

Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [M Ω]
3	DC Standard Version	2 x 4	100	4.7	1
6	DC Standard Version	2 x 0.8	100	4.7	1
10	DC Standard Version	2 x 0.4	100	4.7	1
15	DC Standard Version	2 x 0.1	100	4.7	1

Diagrams

5003

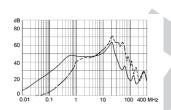


1) Line 2) Load

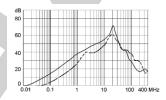
Attenuation Loss

Standard version

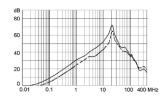
3 A



6 A

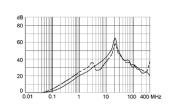


10 A



____15A

- - - - 50Ω differential mode _



 50Ω common mode

All Variants

Rated Current [A]	Mounting	Mounting side	Terminal	Mating Connector	Order Number
3	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0121.1
3	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.015B.1
3	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.016B.1
3	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0111.1
6	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0231.1

Rated Current [A]	Mounting	Mounting side	Terminal	Mating Connector	Order Number
6	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0221.1
6	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.025B.1
6	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.026B.1
6	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0211.1
6	Screw-on/Rivet	Front-/Rear-Side	Solder terminal	Molex HCS-125	5003.0213.1
10	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0321.1
10	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.035B.1
10	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.036B.1
10	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0311.1
10	Screw-on/Rivet	Front-/Rear-Side	Flexible wire and Earth pin 6.3 x 0.8	Molex HCS-125	5003.0316.1
15	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0421.1
15	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.045B.1
15	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	Molex HCS-125	5003.046B.1
15	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	Molex HCS-125	5003.0411.1
3	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1131.1
3	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1121.1
3	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.115B.1
3	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.116B.1
3	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1111.1
6	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1221.1
6	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.125B.1
6	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.126B.1
6	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1211.1
10	Snap-in	Front Side	Flexible wire and Earth pin 6.3 x 0.8	AMP / Molex MLX	5003.1336.1
10	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1321.1
10	Screw	Rear Side	Solder terminal	AMP / Molex MLX	5003.1323.1
10	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.135B.1
10	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.136B.1
10	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1311.1
15	Snap-in	Front Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1431.1
15	Snap-in 2 - 3 mm	Front Side	Flexible wire and Earth solder terminal	AMP / Molex MLX	5003.1448.1
15	Screw	Rear Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1421.1
15	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.145B.1
15	Screw/Soldering and Snap-in on PCB	Rear Side	PCB pin and earth pin 6.3 x 0.8	AMP / Molex MLX	5003.146B.1
15	Screw-on/Rivet	Front-/Rear-Side	Quick connect terminals 6.3 x 0.8 mm	AMP / Molex MLX	5003.1411.1

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

Type for screw on mounting from rear side has pre-threaded holes for M3 screws

Packaging unit 10 Pcs

Accessories

Description



Assorted Covers Rear Cover

0859.0048



RC320 Rear Cover for Power Entry Module



Cord retaining kits Cord retaining strain relief

Flat head, E	4700.0005
Flat head. G	4700.0007

