

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







AC/DC Filter 2-Stage, DIN Rail Mounting, Overcurrent and Overvoltage Protection







Housing RI with Circuit Breaker Housing RI

Housing TI

See below:

Approvals and Compliances

Description

- Single-phase line filter in standard and medical versions
- 2-Stages filter
- Very high attenuation
- broadband
- Fuseholder
- Thermal circuit breaker
- Surge protection

Unique Selling Proposition

- Slim filter for DIN-rail mounting or chassis mounting
- With fuse holder or circuit breaker for equipment
- With overvoltage protection
- Quick wiring with cage clamp terminals

Characteristics

- Protection against interference voltage from the mains Possible interferences generated in the equipment are strongly attenu-
- Especially designed for electric switch and control cabinets
- Suitable for use in equipment according to IEC/UL 60950 Suitable for use in medical equipment according to IEC/UL 60601-1

Weblinks

pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Microsite, Landing Page

Technical Data

Ratings IEC	1 - 16A @ Ta 40 °C / 250 VAC; 50 Hz
	48/250 VDC
Ratings UL/CSA	1 - 16 A @ Ta 40 °C / 125/250 VAC;
	60 Hz
	48/250 VDC
Leakage Current	standard < 1 mA (250 V / 50 Hz)
Dielectric Strength	1.7 kVDC between L-N
-	2.7 kVDC between L/N-PE
	Test voltage (2 sec)
Allowable Operation Tempe-	-40°C to 100°C
rature	
Climatic Category	40/100/21 acc. to IEC 60068-1
IP-Protection	IP 20 IEC 60529
Protection Class	Suitable for appliances with protection
	class I acc. to IEC 61140
Terminal	Spring cage terminals,
	0.2 - 2.5 mm², 24 - 12 AWG
Material: Housing	Plastics, black, UL 94V-0

Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235
3 - 15 A
Short circuit capacity Icn:
2000 A
Climatic Category 05 / 060 / 21 acc.
to IEC 60068-1
1-pole, Shocksafe category PC2 acc. to
IEC 60127-6
for fuse-links 5 x 20mm
5 x 20: 2.5W
Admissible power acceptance at higher
ambient temperature see derating cur-
ves
Climatic Category 40 / 085 / 21 acc.
to IEC 60068-1
320 VAC , 420 VDC , 0.4 W
Climatic Category 40 / 085 / 21 acc.
to IEC 60068-1
Standard and Industrial Version, IEC
60939, UL 60939-3, CSA C22.2 no. 8
Technical Details
> 200'000h 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

Approvals

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

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40047767
c FL ®us	UL Approvals	UL	UL File Number: E495089

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 60939	Passive filters for suppressing electromagnetic interference
<u>IEC</u>	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
(UL)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(UL)	Designed according to	UL 60939-3	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
GF Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
<u>IEC</u>	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

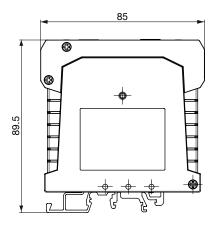
Compliances

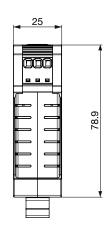
The product complies with following Guide Lines

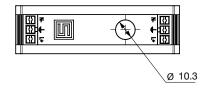
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
©	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.
300	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

Dimension [mm]

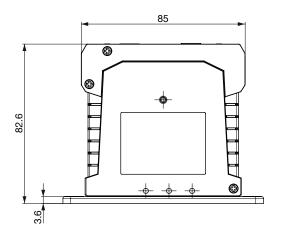
Housing RI

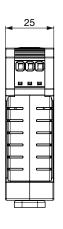


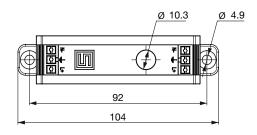




Housing TI



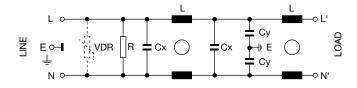


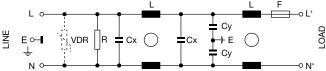


Diagrams

Diagram S1

Diagram S2





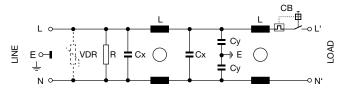
1) Line, 2) Load

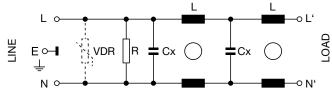
VDR only for versions with overvoltage protection

Diagram S3

1) Line, 2) Load VDR only for versions with overvoltage protection

Diagram S4





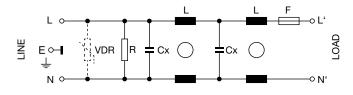
1) Line, 2) Load

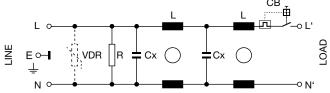
VDR only for versions with overvoltage protection

Diagram S5

1) Line, 2) Load VDR only for versions with overvoltage protection

Diagram S6





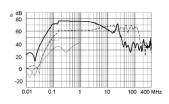
- - - - 50Ω differential mode _

1) Line, 2) Load VDR only for versions with overvoltage protection 1) Line, 2) Load VDR only for versions with overvoltage protection

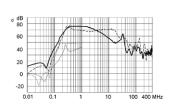
Attenuation Loss

Standard version

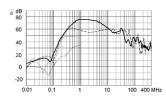
1 A



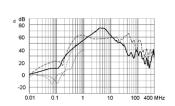
3 A



6 A

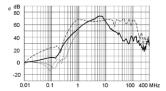


10 A

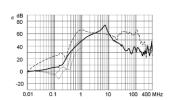


 $_{\rm 50\Omega}$ common mode

12 A

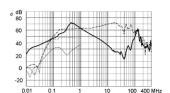


16 A

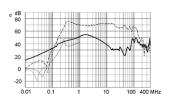


Medical version (M5)

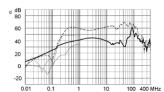
1 A



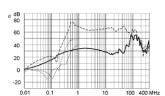
3 A



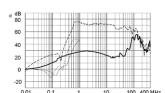
6 A



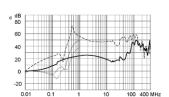
10 A



12 A

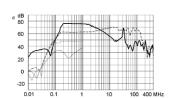


16 A

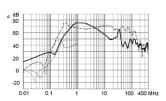


Medical version (M80)

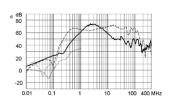
1 A



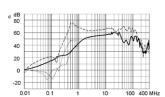
3 A



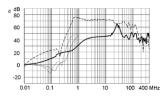
6 A



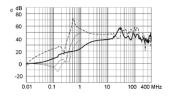
10 A



12 A



16 A



All Variants

Rated current	Rated vol- tage	Rated vol- tage	Filter-Type	Lea- kage Current	Ri	Power Loss	Fuse holder	Circuit- breaker for equipment	Surge protection	Dia- gram	Housings	Weight	Order Number	
[A]	[VAC]	[VDC]		[mA]	[m Ω]	[W]						[g]		
1	250	250	Standard Version	0.5	770	1.3			-	S1	RI	115	3-103-673	
1	250	250	Standard Version	0.5	770	1.3			-	S1	TI	115	3-103-714	
1	250	250	Standard Version	0.5	780	1.3	•		-	S2	RI	115	3-103-679	
1	250	250	Standard Version	0.5	770	1.3			VDR	S1	RI	115	3-103-699	
1	250	250	Standard Version	0.5	780	1.3	•		VDR	S2	RI	115	3-103-705	
1	250	250	Standard Version	0.5	780	1.3	•		VDR	S2	TI	115	3-103-736	
1	250	250	Medical Version (M5)	0.005	770	1.3			-	S4	TI	115	3-103-980	
1	250	250	Medical Version (M5)	0.005	780	1.3	•		-	S 5	TI	115	3-103-986	
3	250	250	Standard Version	0.5	88	1.3			-	S1	RI	115	3-103-674	

Rated current	Rated vol- tage	Rated vol- tage	Filter-Type	Lea- kage Current	Ri	Power Loss	Fuse holder	Circuit- breaker for equipment	Surge protection	Dia- gram	Housings	Weight	Order Number
[A]	[VAC]	[VDC]		[mA]	$[m\Omega]$	[W]						[g]	
3	250	250	Standard Version	0.5	88	1.3			-	S1	TI	115	3-103-715
3	240	48	Standard Version	0.5	250	1.3		•	-	S3	RI	120	3-103-693
3	250	250	Standard Version	0.5	88	1.3			VDR	S1	RI	115	3-103-700
3	250	250	Standard Version	0.5	98	1.3	•		VDR	S2	RI	115	3-103-706
3	250	250	Standard Version	0.5	98	1.3	•		VDR	S2	TI	115	3-103-737
3	240	48	Standard Version	0.5	250	1.3		•	VDR	S3	RI	120	3-103-709
3	240	48	Standard Version	0.5	250	1.3		•	VDR	S3	TI	120	3-103-720
3	250	250	Medical Version (M5)	0.005	88	1.3			-	S4	TI	115	3-103-981
3	250	250	Medical Version (M5)	0.005	98	1.3	•		-	S 5	TI	115	3-103-987
6	250	250	Standard Version	0.5	30	1.73			-	S1	RI	115	3-103-675
6	250	250	Standard Version	0.5	30	1.73			-	S1	TI	115	3-103-716
6	250	250	Standard Version	0.5	40	1.73	•		-	S2	RI	115	3-103-681
6	250	250	Standard Version	0.5	30	1.73			VDR	S1	RI	115	3-103-701
6	250	250	Standard Version	0.5	40	1.73	•		VDR	S2	RI	115	3-103-707
6	250	250	Standard Version	0.5	40	1.73	•		VDR	S2	TI	115	3-103-738
6	240	48	Standard Version	0.5	60	1.3		•	VDR	S3	RI	120	3-103-710
6	240	48	Standard Version	0.5	60	1.73		•	VDR	S3	TI	120	3-103-721
6	250	250	Medical Version (M5)	0.005	30	1.73			-	S4	TI	115	3-103-982
6	250	250	Medical Version (M5)	0.005	40	1.73	•		-	S5	TI	115	3-103-988
10	250	250	Standard Version	0.5	25	2.64			-	S1	RI	115	3-103-676
10	250	250	Standard Version	0.5	25	2.64			-	S1	TI	115	3-103-717
10	240	48	Standard Version	0.5	30	2.64		•	-	S3	RI	120	3-103-695
10	250	250	Standard Version	0.5	25	2.64			VDR	S1	RI	115	3-103-702
10	250	250	Standard Version	0.5	35	2.64	•		VDR	S2	RI	115	3-103-708
10	250	250	Standard Version	0.5	35	2.64	•		VDR	S2	TI	115	3-103-739
10	240	48	Standard Version	0.5	30	2.64		•	VDR	S3	RI	120	3-103-711
10	240	48	Standard Version	0.5	30	2.64		•	VDR	S3	TI	120	3-103-752
10	250	250	Medical Version (M5)	0.005	25	2.64			-	S4	TI	115	3-103-983
10	250	250	Medical Version (M5)	0.005	35	2.64	•		-	S5	TI	115	3-103-989
12	250	250	Standard Version	0.5	12	1.6			-	S 1	RI	115	3-103-677
12	250	250	Standard Version	0.5	12	1.6			-	S1	TI	115	3-103-718
12	250	250	Standard Version	0.5	12	1.6			VDR	S1	RI	115	3-103-703
12	240	48	Standard Version	0.5	25	1.6		•	VDR	S3	RI	120	3-103-712

Rated current	Rated vol- tage	Rated vol- tage	Filter-Type	Lea- kage Current	Ri	Power Loss	Fuse holder	Circuit- breaker for equipment	Surge protection	Dia- gram	Housings	Weight	Order Number	_
[A]	[VAC]	[VDC]		[mA]	$[m\Omega]$	[W]						[g]		
12	240	48	Standard Version	0.5	25	1.6		•	VDR	S3	TI	120	3-103-753	
12	250	250	Medical Version (M5)	0.005	12	1.6			-	S4	TI	115	3-103-984	
15	240	32	Standard Version	0.5	20	1.55		•	VDR	S 3	RI	120	3-103-713	
15	240	32	Standard Version	0.5	20	1.55		•	VDR	S3	TI	120	3-103-754	
16	250	250	Standard Version	0.5	8	1.55			-	S1	RI	115	3-103-678	
16	250	250	Standard Version	0.5	8	1.55			-	S1	TI	115	3-103-719	
16	250	250	Standard Version	0.5	8	1.55			VDR	S1	RI	115	3-103-704	
16	250	250	Medical Version (M5)	0.005	8	1.55			-	S4	TI	115	3-103-985	

Most Popular.

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

20 Pcs Packaging unit

EMC Products