Elettronica Rossoni

HIGH CURRENT COMMON MODE SERIES

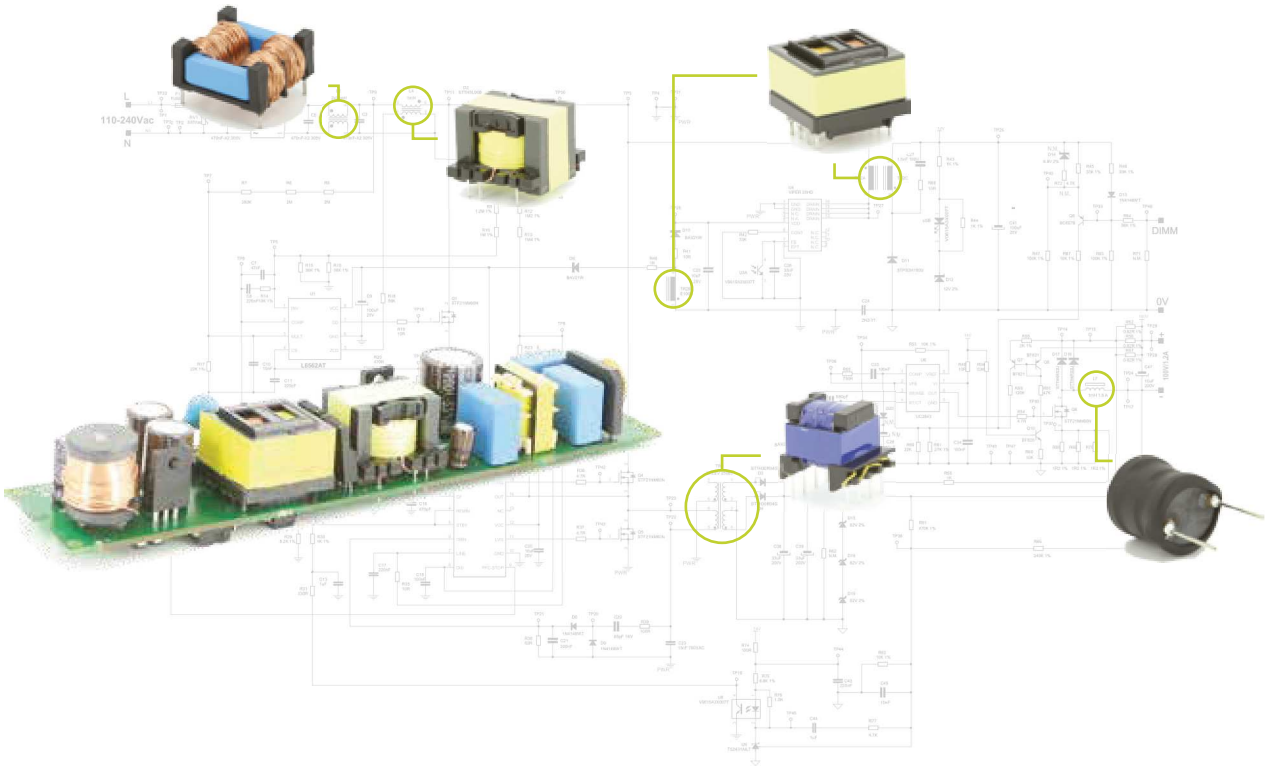
COMMUNICATION & ENTERTAINMENT ELECTRONICS

INDUSTRIAL ELECTRONICS

CONSUMER ELECTRONICS

AUTOMATION TECHNOLOGY

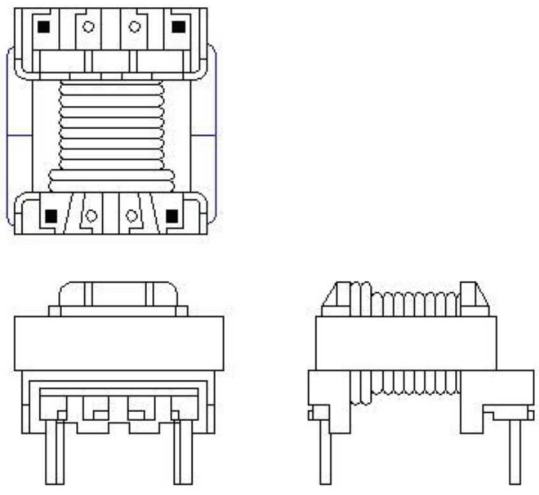
LIGHTING TECHNOLOGY



Company Background

Elettronica Rossoni, established in 1988, has got excellent results in the field of wound components mainly utilized inside Lighting, Automotive, CCTV, Monitors, Power Supply, Battery Charger, Audio and Video Door Entry Systems and Household Appliances.

Activities growth together with propulsive push of new ideas and market requirements, have led to an increase of process automation by acquisition of sophisticated production lines, thus permitting to successfully enter the automotive components market with its needs of high reliability joined to very strict fault margins, typical of a sector characterized by very high production volumes and extremely low error tolerances.



In order to assure such a high reliability and quality standards the Company has introduced a Quality Assurance System which has been certified by CSICERT Homologation Institute according to Standard UNI EN ISO 9001:2000, and is continuously monitoring and improving it.

Elettronica Rossoni Group with its facilities occupy an area of around 5000 sqm over a total property of 10000 sqm employing a manpower of 255.

CUSTOMIZED SAMPLES PERFORMED WITHIN 6 WORKING DAYS

Quality Control

Elettronica Rossoni S.r.l. 's Management, by its President's explicit will, underwrites and discloses the present document synthesizing the Company's directives in order to get an appreciated and renown position inside its operating market.

Elettronica Rossoni S.r.l. has reached a new organization structure expressed in its defined functions diagram. The development of the Management System for the Quality (QMS) according to international Standards UNI EN ISO 9001:2008, represents the resolution of going along a Customer's oriented path, not forgetting other relevant parts such as its employees, suppliers and all the general community.

DNV

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 152651-2014-AQ-RGC-IATF
IATF Certificate No.: 0182332
Page 1 of 2

This is to certify that the Management System of:

Dongguan ER Electronics Co. Ltd.

No. 194 Xin Feng Xi Road, Si Cun, Shi Jie Town, Dongguan City, Guangdong, P.R. China. 52305

Supporting Site Extensions: None
Remote Supporting Functions: See 2nd page

has been found to conform to Technical Specification:

ISO/TS 16949:2009

having been audited in accordance with the:
Rules for the registration scheme for ISO/TS 16949:2009 – 3rd Edition.
This Certificate is valid for the following products/service ranges

MANUFACTURE OF COIL
EXCLUSION: 7.3 PRODUCT DESIGN

Initial Certification date: 28 March 2014
This Certificate is valid until: 27 March 2017
Place and Validity Start date: Katy, Texas, 28 March 2014
for the Accredited Unit: DET NORSKE VERITAS CERTIFICATION INC., KATY, TX USA

Chan Ho Yan
Chan Ho Yan
Lead Auditor

Robert Kozak
Management Representative

Audit Conducted by DNV Office located in Hong Kong

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 151249-2014-AQ-RGC-RvA | Initial certification date: 1 April, 2014 | Valid: 25 May, 2015 – 1 April, 2017

This is to certify that the management system of

Elettronica Rossoni (HK) Limited

Room 4, 5/F, Eastern Harbour Centre, 28 Hoi Chak Street, Quarry Bay, Hong Kong and the sites as mentioned in the appendix 1 accompanying this certificate

has been found to conform to the Quality management system standard:

ISO 9001:2008/GB/T 19001-2008

This certificate is valid for the following Scope:

Manufacture of Coil and Transformer

Place and date: **Shanghai, 26 May, 2015**

For the issuing office: **DNV GL – Business Assurance Suite A, Building 9, No.1591 Hongqiao Road, Changning District, Shanghai 200336, P.R. China TEL: +86 21 32084518**

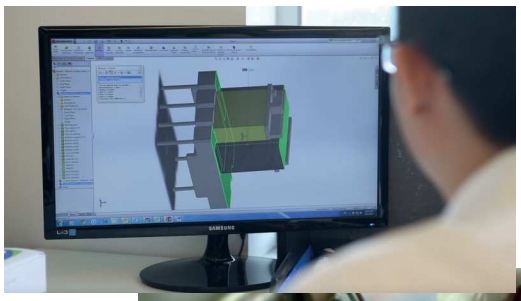
The RvA is a signatory to the IAF MLA

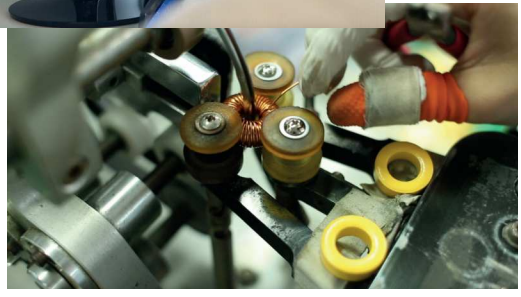
Chen Yi
Management Representative

The Management, while respecting contracts requirements both mandatory and imposed by its QMS, aims to have all its staff involved toward the achievement of targets, yearly renewable, focused to the improvement of Company's performances and is therefore firstly committd to:

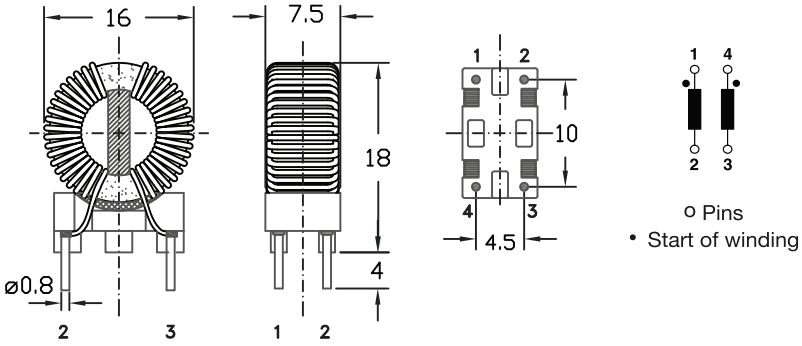
Verify periodically the results of planned Quality-Indicators referred to company processes;
Assuring the availability, compatibly with Company's powers, of all resources suitable to pursue and reach definite targets;

Keep updated our personnel and their operative processes according to reference laws and regulations;
Expand our productive capacity in China to enhance our market competitiveness;
Periodically revising the present document to verify its suitability and conformity to Company's strategic targets.





Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

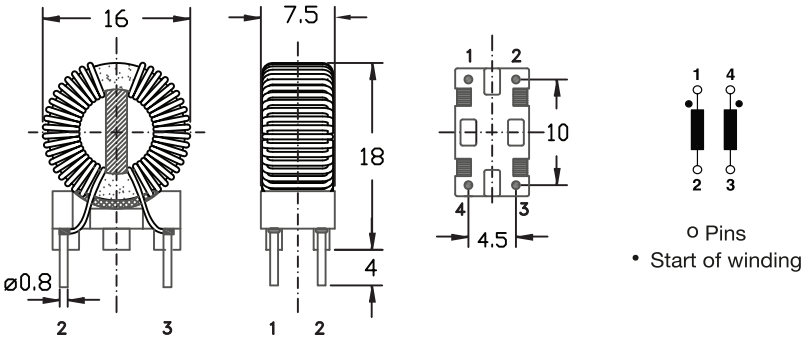
Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC13V4000N	4	0.014	0.015
ERHC13V3000N	3	0.03	0.026
ERHC13V2000N	2	0.047	0.04
ERHC13V1500N	1.5	0.1	0.08

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	3.7g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

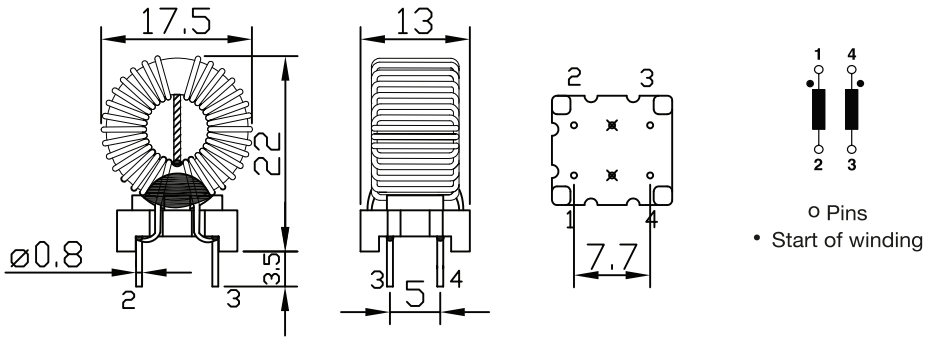
Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC14V2000	2	1	0.045
ERHC14V1000	1	5	0.2
ERHC14V0700	0.7	10	0.35
ERHC14V0500	0.5	20	1
ERHC14V0300	0.3	39	3

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	3.5g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

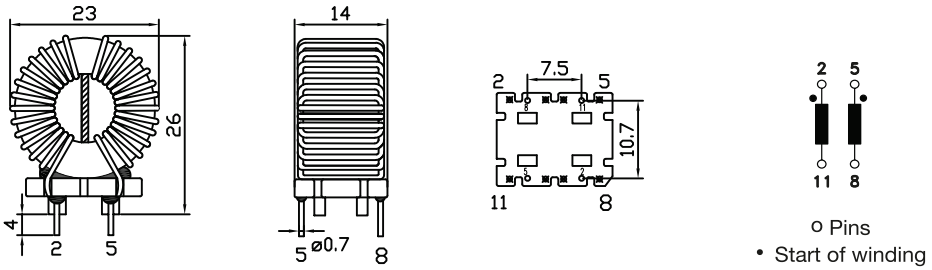
Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC15V3000	3	1	0.035
ERHC15V2001	2	2.2	0.07
ERHC15V1500	1.5	3.3	0.12
ERHC15V1001	1	10	0.36
ERHC15V0501	0.5	20	0.54

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	7.6g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

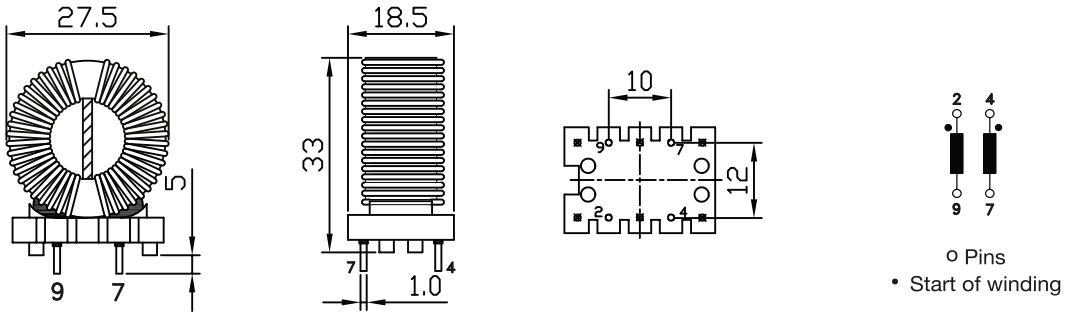
Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC18V6000	6	1	0.013
ERHC18V4000	4	2.2	0.03
ERHC18V2500	2.5	3.3	0.06
ERHC18V2000	2	10	0.125
ERHC18V1500	1.5	20	0.27

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	16g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

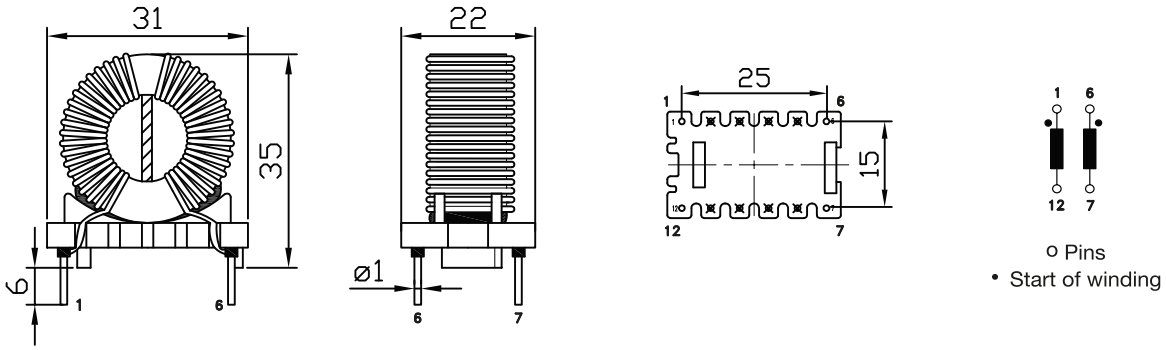
Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC22VA000	10	1	0.007
ERHC22V6000	6	2.2	0.02
ERHC22V4000	4	3.3	0.035
ERHC22V3000	3	10	0.105
ERHC22V2000	2	20	0.22

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	30g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

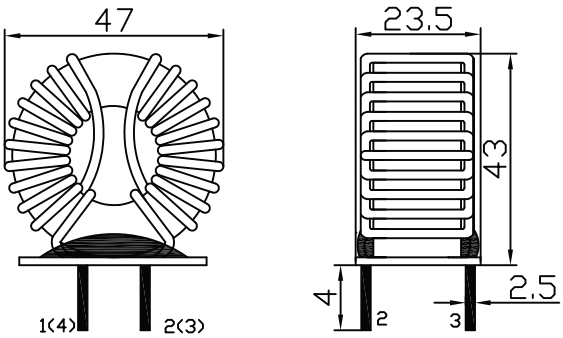
Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC25VA200	12	1	0.009
ERHC25V6000	6	3.3	0.025
ERHC25V5000	5	10	0.055
ERHC25V3000	3	20	0.16
ERHC25V3001	3	33	0.21

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	42g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Max Dimensions in mm
Pins are tinned
Pins distance tolerances±0.2mm



Types

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding Ω
ERHC36VC500	35	0.5	0.0023
ERHC36VB500	25	1	0.0045
ERHC36VB000	20	1.3	0.0062
ERHC36VA400	14	1.8	0.0095

Technical Data

Rated current:	ΔT≤40°C ambient temperature
Operating voltage:	at +20°C and 10kHz, 50mV
Rated inductance:	+50 - 30%
Testing voltage:	1500V - 50Hz, 2 sec, winding to winding
Operating temperature range:	-40 to +125°C, including self temperature raise
DC resistance:	at +20°C
Approx. weight:	30g

The chokes are designed and tested in accordance with EN 138100 ; EN 60938-1. The cases are of flame-retardant plastic material in accordance with UL 94V-0.

Providing SOLUTION is our APTITUDE

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Elettronica Rossoni

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