



Electronica Rossoni

**INDUSTRIAL  
ELECTRONICS**

**CONSUMER  
ELECTRONICS**

**AUTOMATION  
TECHNOLOGY**

**COMMUNICATION  
& ENTERTAINMENT  
ELECTRONICS**

# **COMMON MODE SERIES**

**LIGHTING  
TECHNOLOGY**



# COMMON MODE SERIES

Voltage 85-265Vac Current 0.25 to 0.4A

## TYPES

ERCD26 EE0808

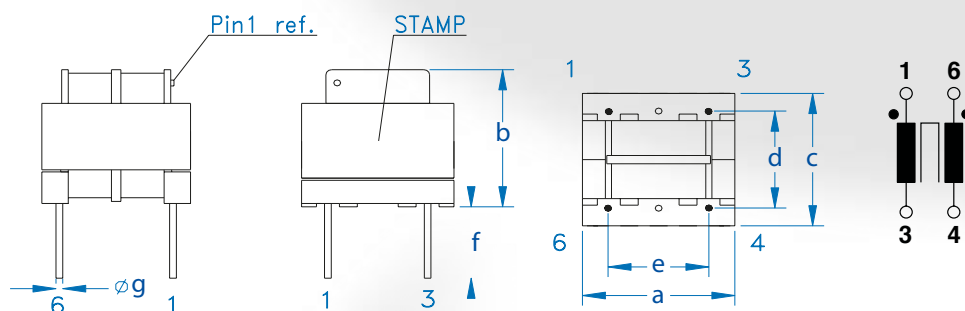
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm  
Pins are tinned

## Types

Code	I <sub>max</sub> [A]	Inductance [mH]	DCR <sub>max</sub> [Ω]	Stamp Code
ERCD26-02	0.40	4.7		/
ERCD26-01	0.35	7		/
ERCD26-00	0.25	9		ER2416

ERCD26		
a	= 10	MAX
b	= 8.7	MAX
c	= 9	MAX
d	= 6.7	±0.2
e	= 5.0	±0.2
f	= 3	±0.5
g	= 0.5	±0.05



## Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 10 kHz, 0.1 mA.
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with IR
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
DC resistance:	at +20°C
Derating operating current:	at +120°C ambient temperature I=0
Overtemperature of windings:	< 55°C
Max. permissible temperature of windings:	115 °C
Approx. weight:	1.5 g



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.

# COMMON MODE SERIES

Voltage 85-265Vac Current 0.24 to 0.54A

## TYPES

ERCD18 EE1313

These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

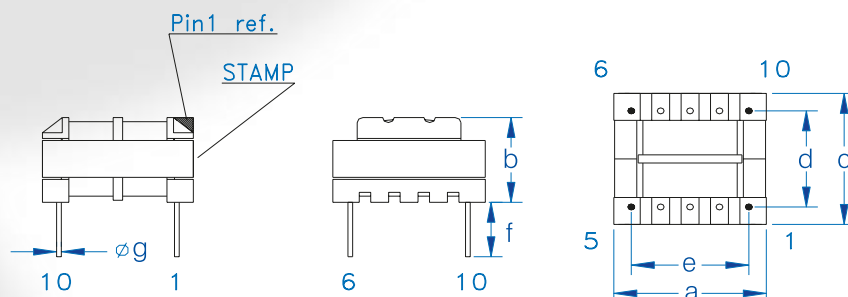
Dimensions in mm

Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	$DCR_{max}$ [Ω]	Stamp Code
ERCD18-00	0.54	12		
ERCD18-01	0.28	22		
ERCD18-02	0.26	27		
ERCD18-03	0.24	33		

ERCD18	
a	= 13.5 MAX
b	= 10.5 MAX
c	= 14.0 MAX
d	= 10.3 ±0,2
e	= 10,0 ±0,2
f	= 3,5 ±0,5
g	= 0,6 ±0,05



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
3.8 g



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.

# COMMON MODE SERIES

Voltage 85-265Vac Current 0.5 to 0.6A

## TYPES

ERCD16 EE1616

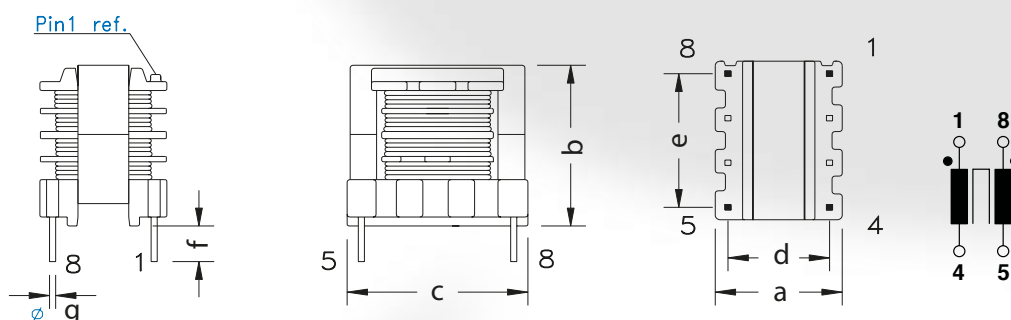
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm  
Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	$DCR_{max}$ [Ω]	Stamp Code
ERCD16-00	0,6	15		/
ERCD16-01	0,5	27		ER2754

ERCD24
a = 13.0 MAX
b = 18.5 MAX
c = 18.0 MAX
d = 10.0 ±0,3
e = 15.0 ±0,3
f = 3.0 min
g = 0,6x0,6 ±0,05



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
6 g



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.

# COMMON MODE SERIES

Voltage 85-250Vac Current 0.3 to 2 A

## TYPES

ERCE20H EE2020

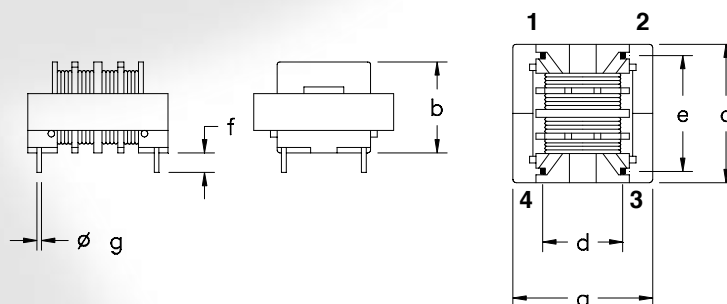
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm  
Pins are tinned

## Types

Code	$I_{max}$ [A]	[mH] $\pm 10\%$	$DCR_{max}$ [ $\Omega$ ]	Stamp Code
ERCE20H0300	0.3	2 X 56	2 X 2.4	
ERCE20H0301	0.35	2 x 47	2 x 1.9	
ERCE20H0400	0.45	2 x 39	2 x 1.5	
ERCE20H0500	0.52	2 x 27	2 x 1.1	
ERCE20H0600	0.62	2 x 10	2 x 0.78	
ERCE20H2000	2	2 x 1.8	2 x 0.45	

ERCE20H	
a =	21,0 MAX
b =	14,0 MAX
c =	21,0 MAX
d =	12,0 $\pm 0,3$
e = $\pm$	18,0 0,3
f = m	3,0 in
g = $\pm$	1,0 0,05



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
11.8 g



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.

# COMMON MODE SERIES

Voltage 85-250Vac Current 0.32 to 1 A

## TYPES

ERCE20V EE2020

These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

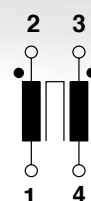
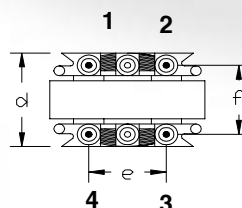
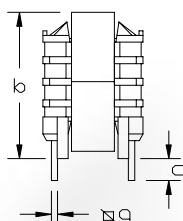
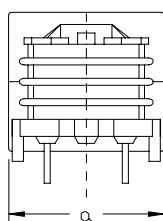
Dimensions in mm

Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	$DCR_{max}$ [Ω]	Stamp Code
ERCE20V0300	0.32	2 X 56	2.4	
ERCE20V0301	0.35	2 x 47	1.9	
ERCE20V0400	0.45	2 x 39	1.5	
ERCE20V0500	0.52	2 x 27	1.1	
ERCE20V0600	0.62	2 x 10	0.78	
ERCE20V1000	1	2 x 1,8	0.45	

ERCE20V	
a =	20.5 MAX
b =	20.5 MAX
c =	3.5 MAX
d =	13.5 ±0,2
e =	18,0 ±0,3
f =	9.5 min
g =	0.8 ±0,5



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
15.5 g



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.

# COMMON MODE SERIES

Voltage 85-265Vac Current 0.15 to 0.25A

## TYPES

ERCD24 EE2020

These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm

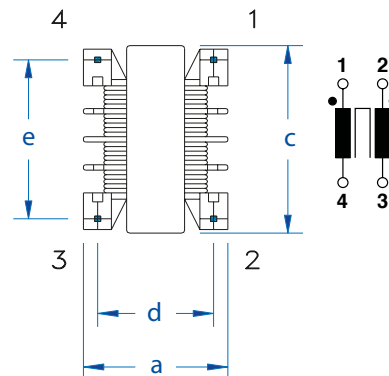
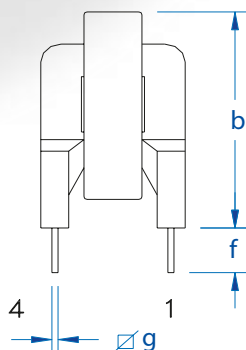
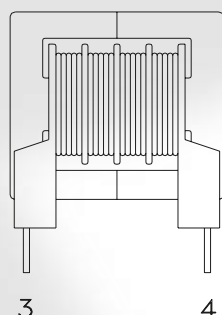
Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	DCR <sub>max</sub> [Ω]	Stamp Code
ERCD24-00	0.15	5		/
ERCD24-01	0.8	22		/
ERCD24-02	0.25	100		ER1875-02

### ERCD24?

a	=	14.3	MAX
b	=	15.3	MAX
c	=	16.3	MAX
d	=	17.3	±0,3
e	=	18.3	±0,3
f	=	19.3	MIN
	=	20.3	±0,05



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
14 g



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.



# COMMON MODE SERIES

Voltage 85-250Vac Current 0.25 to 2 A

## TYPES

ERCU08V UU08

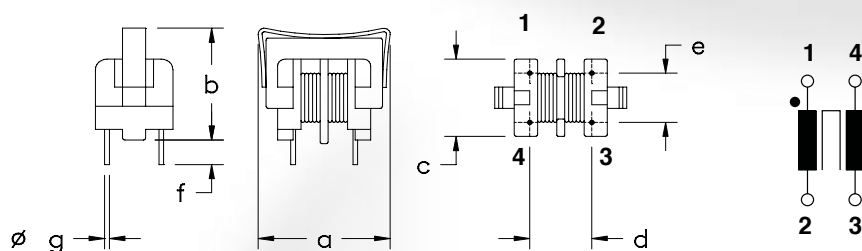
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Dimensions in mm  
Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	$DCR_{max}$ [Ω]	Stamp Code
ERCU08V0200	0,25	2 X 47	2	
ERCU08V0300	0,32	2 x 39	1.7	
ERCU08V0301	0,35	2 x 28	0.96	
ERCU08V0400	0,42	2 x 18	0.74	
ERCU08V0500	0,55	2 x 10	0.39	
ERCU08V2000	2	2 x 1.81	0,07	

ERCV08V	
a =	11.0 MAX
b =	16.5 MAX
c =	16.5 MAX
d =	7.0 ±0,3
e =	8.0 ±0,3
f =	3.5 min
g =	0.6 ±0,1



## Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 10 kHz, 0.1 mA.
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with IR
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
DC resistance:	at +20°C
Derating operating current:	at +120°C ambient temperature I=0
Overtemperature of windings:	< 55°C
Max. permissible temperature of windings:	115 °C
Approx. weight:	3.8 g



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.



# COMMON MODE SERIES

Voltage 85-250Vac Current 0.35 -1.2A

## TYPES

ERCU10V UU10

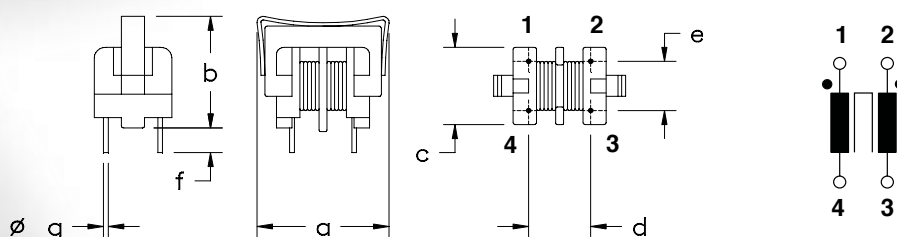
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm  
Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	$DCR_{max}$ [Ω]	Stamp Code
ERCU10V0300	0.35	2 X 47	3.8	
ERCU10V0400	0.4	2 x 39	2.7	
ERCU10V0500	0.5	2 x 28	1.8	
ERCU10V0600	0.6	2 x 18	1.4	
ERCU10V0800	0.8	2 x 10	0.64	
ERCU10V1200	1.2	2 x 1.8	0.1	

ERCU10V	
a =	17.5 MAX
b =	17.5 MAX
c =	11.0 MAX
d =	8.0 ±0,5
e =	7.0 ±0,5
f =	4.0 ±1.0
g =	0.6 ±0.05



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
4.5 g



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.

# COMMON MODE SERIES

Voltage 85-250Vac Current 0.65 -2.1A

## TYPES

ERCU15V UU15

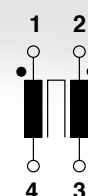
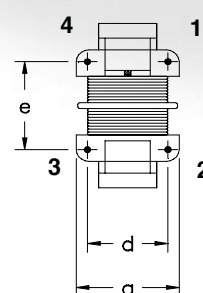
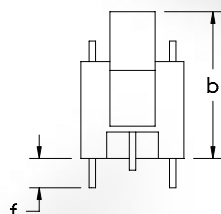
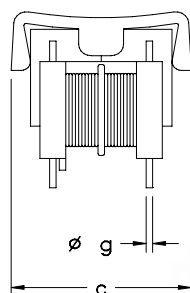
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Dimensions in mm  
Pins are tinned

## Types

Code	$I_{max}$ [A]	Inductance [mH]	$DCR_{max}$ [Ω]	Stamp Code
ERCU15V0600	0.65	2 X 47	1.3	
ERCU15V0700	0.72	2 x 39	1	
ERCU15V0800	0.8	2 x 28	0.9	
ERCU15V1000	1.02	2 x 18	0.48	
ERCU15V1001	1.05	2 x 10	0.25	
ERCU15V2000	2.1	2 x 1.8	0.04	

ERCU15V	
a =	17.0 MAX
b =	25.0 MAX
c =	28.0 MAX
d =	12.5 ±0.1
e =	15.0 ±0.1
f =	5.0 ±0.2
g =	1.0 ±0.05



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
10 g



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.

# COMMON MODE SERIES

Voltage 85-250Vac Current 0.95 -3.3A

## TYPES

ERCU21V UU21

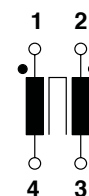
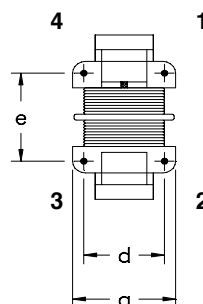
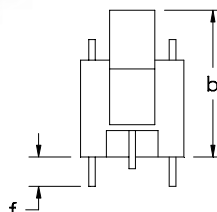
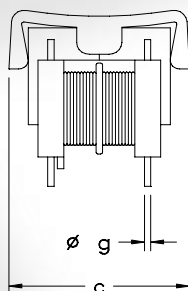
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm  
Pins are tinned

## Types

Code	$I_{\max}$ [A]	Inductance [mH]	$DCR_{\max}$ [Ω]	Stamp Code
ERCU21V0900	0.95	2 X 47	4.6	
ERCU21V1000	1.13	2 x 39	3.7	
ERCU21V1001	1.32	2 x 28	2.76	
ERCU21V1002	1.62	2 x 18	1.92	
ERCU21V1003	1.85	2 x 10	0.89	
ERCU21V3000	3.3	2 x 1.8	0.15	

ERCU21V	
a =	18.6 ±0.6
b =	31.6 +0.0-1.0
c =	36 MAX
d =	16.0 ±0.6-0.0
e =	20.9 ±1.2-0.0
f =	4.5 Ref
g =	



## Technical Data

Rated current:  
Rated inductance:  
Inductance tolerance:  
Inductance loss:  
Testing voltage:  
Climatic category:  
DC resistance:  
Derating operating current:  
Overtemperature of windings:  
Max. permissible temperature of windings:  
Approx. weight:

referred to 250 V-50 Hz and +60°C ambient temperature  
at +20°C and 10 kHz, 0.1 mA.  
+50 -30%  
< 10% at DC initial loading with IR  
1500 V -50 Hz, 2 sec, winding to winding  
DIN GKC (-40 to +125°C; humidity cat. C)  
at +20°C  
at +120°C ambient temperature I=0  
< 55°C  
115 °C  
21 g



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.



Elettronica Rossoni

[www.elettronicarossoni.com](http://www.elettronicarossoni.com)