



Elettronica Rossoni

**INDUSTRIAL  
ELECTRONICS**

**CONSUMER  
ELECTRONICS**

**AUTOMATION  
TECHNOLOGY**

**COMMUNICATION  
& ENTERTAINMENT  
ELECTRONICS**

# **TOROID COMMON MODE SERIES**

**LIGHTING  
TECHNOLOGY**



# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 0.3 to 2 A

## TYPES

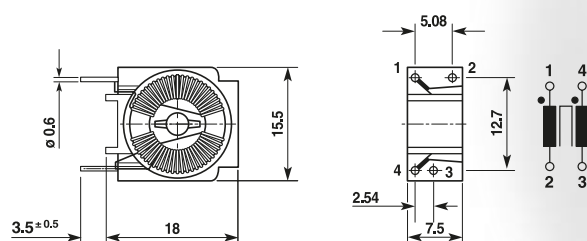
### ERCT08V

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.

Max Dimensions in mm

Pins are tinned

Pins distance tolerances  $\pm 0.2$ mm



ERCT08V

○ Pins

● Start of winding

## Types

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
ERCT08V0301	0.3	1	180
ERCT08V0302	0.3	2.2	300
ERCT08V0303	0.3	4.7	400
ERCT08V0304	0.3	12	650
ERCT08V0500	0.5	1	100
ERCT08V0501	0.5	2.2	140
ERCT08V0600	0.6	4.4	220
ERCT08V1000	1	0.1	30
ERCT08V1001	1	1	60
ERCT08V1002	1	3	150
ERCT08V2000	2	1.1	70

## 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 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.

# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 0.3 to 2A

TYPES

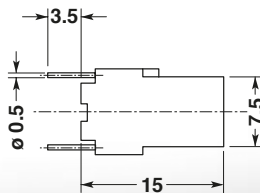
ERCT10V

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.

## Max Dimensions in mm

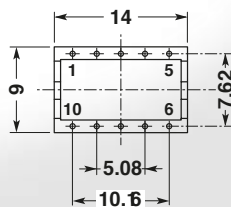
Pins are tinned

Pins distance tolerances  $\pm 0.2$ mm



**ERCT10V**

Vertical mounting



Standard



○ Pins

● Start of winding

## Types

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
ERCT10V0301	0.3	1	180
ERCT10V0302	0.3	2.2	300
ERCT10V0303	0.3	4.7	400
ERCT10V0304	0.3	12	650
ERCT10V0501	0.5	1	100
ERCT10V0502	0.5	2.2	140
ERCT10V0600	0.6	4.4	220
ERCT10V1000	1	0.1	30
ERCT10V1001	1	1	60
ERCT10V1002	1	3	150
ERCT10V2000	2	1.1	70

## 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 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.

# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 0.4 to 3.6A

## TYPES

ERCT13H

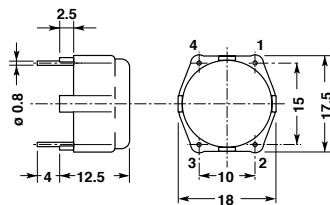
ERCT13V

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.

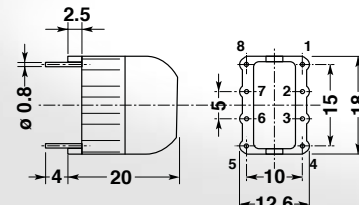
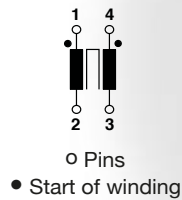
Max Dimensions in mm

Pins are tinned

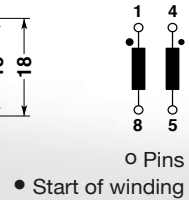
Pins distance tolerances  $\pm 0.2$ mm



**ERCT13H**  
Horizontal mounting



**ERCT13V**  
Vertical mounting



Optional pins: 2-7/3-6

## Types

Horizontal	Vertical	Rated current per winding	Rated inductance per winding	DC resistance per winding (typical)
Code	Code			
		A	mH	mΩ
ERCT13H0400	ERCT13V0400	0.4	39	2600
ERCT13H0401	ERCT13V0401	0.4	27	1000
ERCT13H0500	ERCT13V0500	0.5	18	940
ERCT13H0700	ERCT13V0700	0.7	10	360
ERCT13H1000	ERCT13V1000	1	6.8	400
ERCT13H1200	ERCT13V1200	1.2	6.8	330
ERCT13H1500	ERCT13V1500	1.5	3.3	100
ERCT13H2002	ERCT13V2002	2	1	40
ERCT13H2600	ERCT13V2600	2.6	0.4	60
ERCT13H3000	ERCT13V3000	3	1	50
ERCT13H3600	ERCT13V3600	3.6	0.4	15

## 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:	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.

# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 0.3 to 3A

## TYPES

ERCT16H

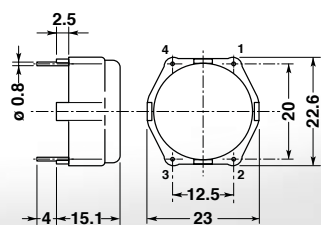
ERCT16V

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.

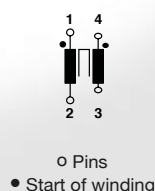
### Max Dimensions in mm

Pins are tinned

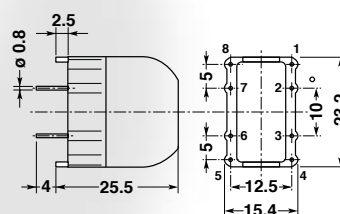
Pins distance tolerances  $\pm 0.2$ mm



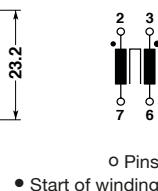
**ERCT16H**  
Horizontal mounting



○ Pins  
● Start of winding  
Dimensions in mm  
Pins are tinned



**ERCT16V**  
Vertical mounting



○ Pins  
● Start of winding  
Optional pins: 1-8/4-5

## Types

Horizontal	Vertical	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
Code	Code			
ERCT16H0300	ERCT16V0300	0.3	47	1400
ERCT16H0500	ERCT16V0500	0.5	27	900
	ERCT16V0501	0.5	39	1100
	ERCT16V0502	0.5	47	1200
	ERCT16V0600	0.6	18	480
	ERCT16V0800	0.8	15	360
	ERCT16V0801	0.8	27	500
	ERCT16V0802	0.8	18	400
ERCT16H1000	ERCT16V1000	1	10	450
	ERCT16V1001	1	15	540
	ERCT16V1002	1	5	300
	ERCT16V1200	1.2	10	400
	ERCT16V1500	1.5	6.8	260
ERCT16H2000	ERCT16V2000	2	2.2	70
	ERCT16V2500	2.5	3.3	120
ERCT16H3000	ERCT16V3000	3	1.1	70

## 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  
13 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.

# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 0.5 to 4A

## TYPES

ERCT20H

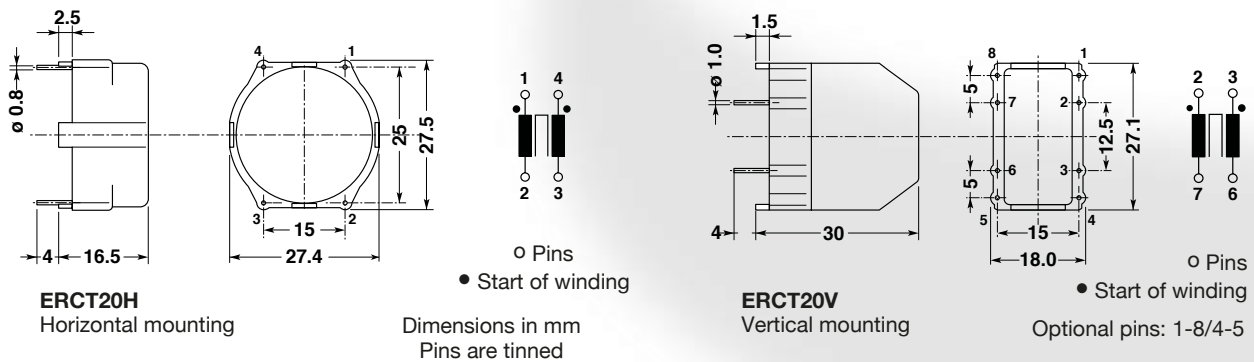
ERCT20V

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.

Max Dimensions in mm

Pins are tinned

Pins distance tolerances  $\pm 0.2$ mm



## Types

Horizontal	Vertical	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
Code	Code			
ERCT20H0500	ERCT20V0500	0.5	56	2000
ERCT20H0600		0.6	47	1150
ERCT20H1000	ERCT20V1000	1	27	600
ERCT20H2000	ERCT20V2000	2	5.6	170
ERCT20H4000	ERCT20V4000	4	2.7	45

## 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:	16 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.



# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 0.5 to 6A

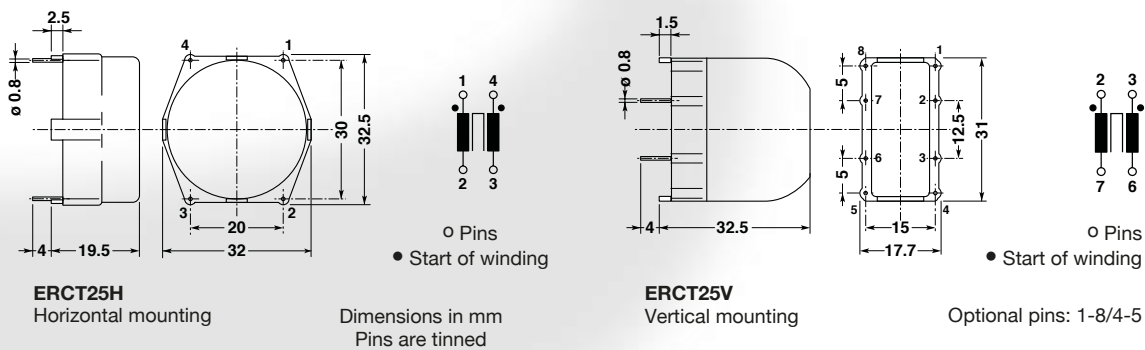
## TYPES

ERCT25H

ERCT25V

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.

Max Dimensions in mm  
Pins are tinned  
Pins distance tolerances  $\pm 0.2\text{mm}$



## Types

Horizontal	Vertical	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
Code	Code			
ERCT25H0501	ERCT25V0501	0.5	82	1500
ERCT25H0500	ERCT25V0500	0.5	100	1500
ERCT25H1001	ERCT25V1001	1.0	33	630
ERCT25H1000	ERCT25V1000	1.0	47	750
ERCT25H1501	ERCT25V1501	1.5	27	490
ERCT25H1500	ERCT25V1500	1.5	22	330
ERCT25H2000	ERCT25V2000	2.0	6.8	139
ERCT25H2001	ERCT25V2001	2.0	10	230
ERCT25H4003	ERCT25V4003	4.0	3.3	68
ERCT25H4001		4.0	3.9	61
	ERCT25V4001	4.0	3.9	80
ERCT25H6000		6.0	1.8	25
	ERCT25V6000	6.0	1.8	38

## 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:	28g

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.

# TOROID COMMON MODE SERIES

Voltage 85-250Vac Current 1 to 10A

## TYPES

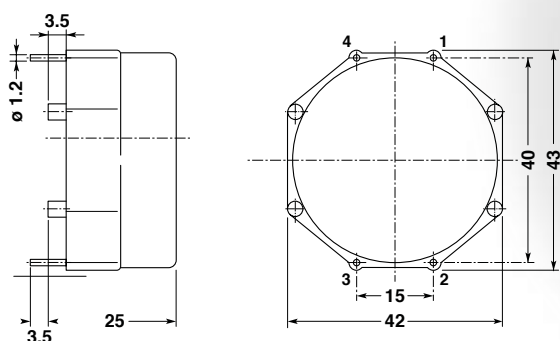
### ERCT32H

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.

Max Dimensions in mm

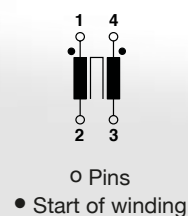
Pins are tinned

Pins distance tolerances  $\pm 0.2$ mm



Dimensions in mm  
Pins are tinned

**ERCT32H**  
Horizontal mounting



## Types

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
ERCT32H1000	1	68	1000
ERCT32H2000	2	18	230
ERCT32H4000	4	6.8	60
ERCT32H6000	6	3.9	38
ERCT32H8000	8	2.7	22
ERCT32HA000	10	1.8	14

## 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:	63 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)