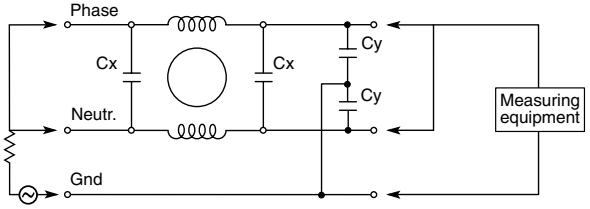
A distinct category of filters, especially designed to supress the “common mode” or asymmetrical interferences, which appear between both the power line cords and the ground, is realized with the so called “current-compensated” chokes.

These chokes are fitted with a ferrite core and a special winding arrangement, made of two symmetrical windings where the same current flows in such a way as to produce two identical but opposite magnetic flux, so ensuring that the high permeability core is not saturated.

Of course, to reduce practically to zero the resultant flux, the two windings must be electrically identical and the stray inductance much lower than the nominal windings inductance, which is easily obtained with the toroidal cores.

Under these conditions, the filtering effect takes place because the currents due to the asymmetrical disturbances flow along the two windings in such a way that the corresponding flux are added, thus allowing the full winding inductance to appear.

While the filter is very affective against the asymmetrical interferences, it shows a very low effect against the symmetrical interferences, as they produce a current compensation in the windings, and this causes the choke inductance to disappear.



Of course, a current-compensated filter provides a double attenuation, i e it not only prevents the interferences internally generated in the equipment from disturbing the other equipment, but it also protects sensitive circuits inside the equipment like microprocessors or logical equipment from the external interferences.

The current-compensated chokes are normally used in power supply filtering in combination with capacitors; in the diagram a typical filter is shown with the Cy capacitors, which strongly improve the asymmetrical interferences suppression, and the Cx capacitors which are effective against the symmetrical interferences.

In practice, these filters can be used on a frequency range from a few kHz to a few Mhz; their interferences attenuation is in principle proportional to the inductance value and to the frequency, but it also depends on the Cy capacitors and on the stray capacitance, which unfortunately limits the useful filtering band.

The current-compensated choke actually shows in its lower frequency range an increasing attenuation with frequency, then a generally rounded maximum which corresponds to the resonance frequency, and finally a decreasing attenuation with frequency.

The higher usefull filtering frequency does not generally exceed the resonance frequency, which depends on the inductance value as well as the stray capacitance; this in turn can vary according to the coil size, the coil design and winding method, but this occurrence cannot be eliminated in principle.

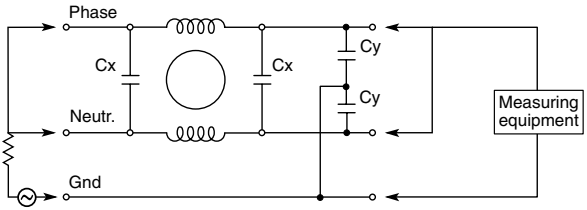
Il existe une catégorie distincte de filtre, spécialment prévu pour supprimer "le mode commun" ou autrement appelé "les interférences asymétriques", qui apparaissent conjointement entre les cables d'alimentation et la terre; ce filtrage est réalisé avec des selfs à compensation de courant.

Ces selfs sont réalisées à partir de tore ferrite et d'un bobinage spécial, constitué de deux bobinages symétriques de manière à ce que le flux de courant crée deux flux magnétiques identiques et opposés, permettant d'éviter la saturation du tore.

Bien entendu, afin de réduire pratiquement à zéro le flux magnétique résultant, les deux bobinages doivent être électriquement identiques et l'inductance de fuite nettement inférieure à l'inductance nominale de chaque bobinage, ce qui est facilement obtenu sur des noyaux toriques.

Dans ces conditions, le dispositif a un effet filtrant parce que les courants créés par les perturbations asymétriques se propagent le long des deux bobinages de facon à ce que les flux résultants s'additionnent, permettant donc l'apparition de la totalité de la valeur inductive de bobinage.

Alors que le dispositif est très efficace contre les interférences asymétriques, il l'est peu contre les interfèrences symétriques, étant donné qu'elles créent une compensation du courant dans les bobinages, entrainant une disparition de la valeur d'inductance.



Une self à courant compensé produit une atténuation symétrique des interférences électromagnétiques de deux cotés, c`est à dire en empêcheant les interférences produites par l'appareil de déranger le fonctionnement d'autres équipements, et en protégeant les parties sensibles de l'appareil (tels que les microprocesseurs ou les circuits logiques) des perturbations externes.

Ces selfs sont normalement utilisées dans le filtrage des alimentations à découpage combinées à des condensateurs; le graphique montre un filtre typique avec les condensateurs Cy, qui ont une grande importance sur la suppression des perturbations asymétriques, et les condensateurs Cx qui ont effet sur les interférences symétriques .

Ces filtres sont pratiquement utilisés sur une bande de fréquence allant de quelques kHz à quelques Mhz; leur atténuation des interférences est en principe proportionelle à la valeur d'inductance et à la fréquence, mais dépende aussi des capacités adjointes Cy et des capacités de fuite, qui malheureusement limitent la bande de filtrage utilisable.

En effet, la seule self à compensation de courant montre une atténuation des interférences qui s'accroit, en gros, proportionnellement à la fréquence jusqu'à la fréquence de résonance, à laquelle on trouve un maximum d'atténuation; aux fréquences plus élevées l'atténuation décroit sensiblement.

La fréquence maximale à laquélle le filtrage est efficace ne dépasse pas beaucoup, d'abitude, la fréquence de résonance; celle ci dépend soit de la valeur d'inductance soit de la capacité de dispersion, qui peut varier en fonction de la géométrie de la self et de la technologie de bobinage; ce phénomène ne peut en principe pas être éliminé.

Current-compensated Noise Suppression Chokes

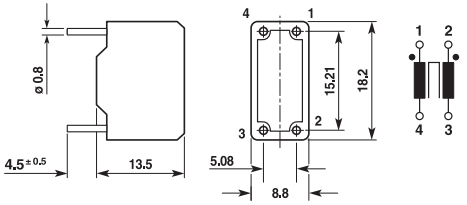
TYPES
42V13
42V18

Voltage **250 Vac**
Current **0.3 to 2 A - 0.25 to 0.7 A**

CASE VERSION

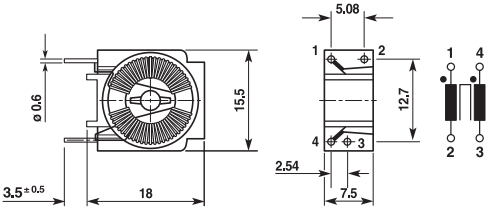
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm
Pins are tinned



42V13

o Pins
• Start of winding



42V18

o Pins
• Start of winding

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ	Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) mΩ
42V13 03 01	0.3	1	180	42V18 02 50	0.25	47	2400
42V13 03 02	0.3	2.2	300	42V18 03 00	0.3	30	2200
42V13 03 03	0.3	4.7	400	42V18 03 50	0.35	22	1900
42V13 03 04	0.3	12	650	42V18 04 00	0.4	15	1350
42V13 05 01	0.5	1	100	42V18 05 00	0.5	10	1000
42V13 05 02	0.5	2.2	140	42V18 06 00	0.6	6.8	630
42V13 06 00	0.6	4.4	220	42V18 07 00	0.7	4.7	440
42V13 10 01	1	1	60				
42V13 10 02	1	3	150				
42V13 15 00	1.5	1.6	100				
42V13 20 00	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 I^R
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:	42V13 4 g 42V18 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

Current-compensated Noise Suppression Chokes

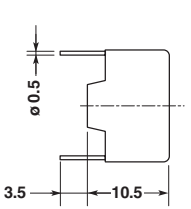
TYPES
42H14

Voltage **250 Vac**
Current **0.3 to 2 A**

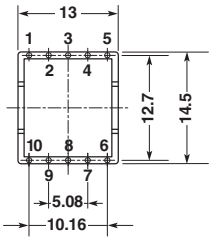
CASE VERSION

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.

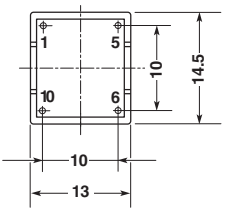
Dimensions in mm
Pins are tinned



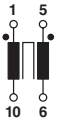
42H14
Horizontal mounting



Standard



Optional
K type



o Pins
• Start of winding

TYPES

Standard	Optional	Rated current per winding	Rated inductance per winding	DC resistance per winding (typical)
Code	Code	A	mH	m Ω
42H14 03 01	42H14 03 T1	0.3	1	180
42H14 03 02	42H14 03 T2	0.3	2.2	300
42H14 03 03	42H14 03 T3	0.3	4.7	400
42H14 03 04	42H14 03 T4	0.3	12	650
42H14 05 01	42H14 05 T1	0.5	1	100
42H14 05 02	42H14 05 T2	0.5	2.2	140
42H14 06 00	42H14 06 T0	0.6	4.4	220
42H14 10 00	42H14 10 T0	1	0.1	30
42H14 10 01	42H14 10 T1	1	1	60
42H14 10 02	42H14 10 T2	1	3	150
42H14 20 00	42H14 20 T0	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 I^R
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
The cases are of flame-retardant plastic material in accordance with UL 94V-0

Current-compensated Noise Suppression Chokes

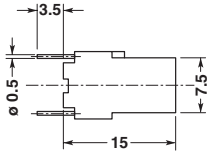
TYPES
42V15

Voltage **250 Vac**
Current **0.3 to 2 A**

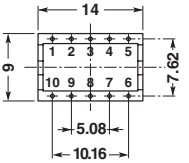
CASE VERSION

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.

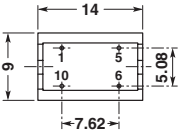
Dimensions in mm
Pins are tinned



42V15
Vertical mounting



Standard



Optional
K type

o Pins
• Start of winding

TYPES

Standard	Optional	Rated current per winding	Rated inductance per winding	DC resistance per winding (typical)
Code	Code	A	mH	m Ω
42V15 03 01	42V15 03 T1	0.3	1	180
42V15 03 02	42V15 03 T2	0.3	2.2	300
42V15 03 03	42V15 03 T3	0.3	4.7	400
42V15 03 04	42V15 03 T4	0.3	12	650
42V15 05 01	42V15 05 T1	0.5	1	100
42V15 05 02	42V15 05 T2	0.5	2.2	140
42V15 06 00	42V15 06 T0	0.6	4.4	220
42V15 10 00	42V15 10 T0	1	0.1	30
42V15 10 01	42V15 10 T1	1	1	60
42V15 10 02	42V15 10 T2	1	3	150
42V15 20 00	42V15 20 T0	2	1.1	70

Technical Data

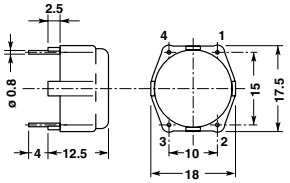
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 10 kHz, 0.1 mA.
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; 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
Approval:	VDE

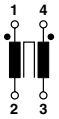
The chokes are designed and tested in accordance with EN 138100; EN 60938
The cases are of flame-retardant plastic material in accordance with UL 94V-0

Voltage 250 Vac
Current 0.4 to 3.6 A

CASE VERSION

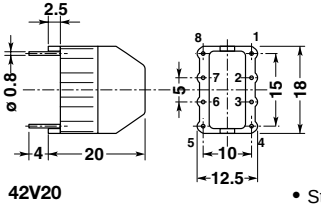
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.





42H17
Horizontal mounting

o Pins
• Start of winding



42V20
Vertical mounting

o Pins
• Start of winding

Dimensions in mm
Pins are tinned

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	m Ω
42H17 04 00	42V20 04 00	0.4	39	2600
42H17 04 01	42V20 04 01	0.4	27	1000
42H17 05 00	42V20 05 00	0.5	18	940
42H17 07 00	42V20 07 00	0.7	10	360
42H17 10 00	42V20 10 00	1	6.8	400
42H17 12 00	42V20 12 00	1.2	6.8	330
42H17 15 00	42V20 15 00	1.5	3.3	100
42H17 20 02	42V20 20 02	2	1	40
42H17 26 00	42V20 26 00	2.6	0.4	60
42H17 30 00	42V20 30 00	3	1	50
42H17 36 00	42V20 36 00	3.6	0.4	15

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature.
Inductance tolerance:	+50 -30%
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings:	< 55°C
Approx. weight:	10 g
Approval:	VDE

More technical data see p. 14

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

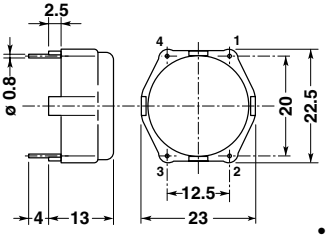
Current-compensated Noise Suppression Chokes

TYPES
42H22
42V25

CASE VERSION

Voltage **250 Vac**
Current **0.3 to 3 A**

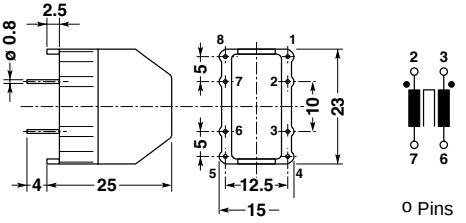
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.



o Pins
• Start of winding

42H22
Horizontal mounting

Dimensions in mm
Pins are tinned



o Pins
• Start of winding

42V25
Vertical mounting

Optional pins: 1-8/4-5

TYPES

Horizontal	Vertical	Rated current per winding	Rated inductance per winding	DC resistance per winding (typical)
Code	Code	A	mH	m Ω
42H22 03 00	42V25 03 00	0.3	47	1400
42H22 05 00	42V25 05 00	0.5	27	900
	42V25 05 01	0.5	39	1100
	42V25 05 02	0.5	47	1200
	42V25 06 00	0.6	18	480
	42V25 08 00	0.8	15	360
	42V25 08 01	0.8	27	500
	42V25 08 02	0.8	18	400
42H22 10 00	42V25 10 00	1	10	450
	42V25 10 01	1	15	540
	42V25 10 02	1	5	300
	42V25 12 00	1.2	10	400
	42V25 15 00	1.5	6.8	260
42H22 20 00	42V25 20 00	2	2.2	70
	42V25 25 00	2.5	3.3	120
42H22 30 00	42V25 30 00	3	1.2	70

Technical Data

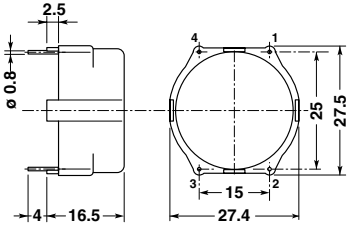
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature.
Inductance tolerance:	+50 -30%
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings:	< 55°C
Approx. weight:	12 g
Approval:	VDE

More technical data see p. 17

CASE VERSION

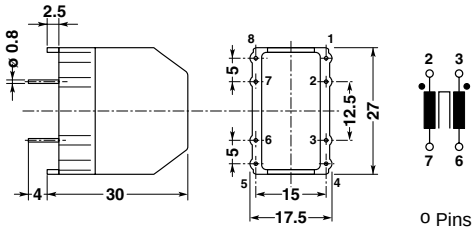
Voltage **250 Vac**
Current **0.5 to 4 A**

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.



42H27
Horizontal mounting

Dimensions in mm
Pins are tinned



42V30
Vertical mounting

Optional pins: 1-8/4-5

TYPES

Horizontal	Vertical	Rated current per winding	Rated inductance per winding	DC resistance per winding (typical)
Code	Code	A	mH	m Ω
42H27 05 00	42V30 05 00	0.5	56	2000
42H27 06 00		0.6	47	1150
42H27 10 00	42V30 10 00	1	27	600
42H27 20 00	42V30 20 00	2	5.6	170
42H27 40 00	42V30 40 00	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 I^R
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
Approval:	VDE

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

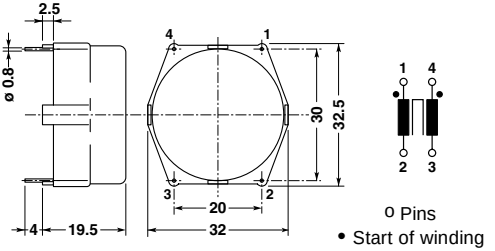
Current-compensated Noise Suppression Chokes

TYPES
42H32
42V32

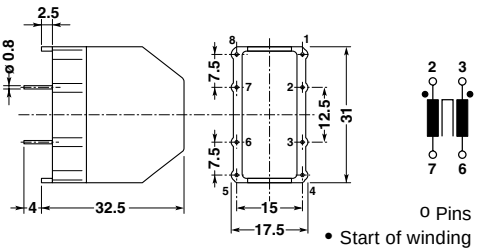
CASE VERSION

Voltage **250 Vac**
Current **0.5 to 6 A**

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.



42H32
Horizontal mounting



42V32
Vertical mounting

Dimensions in mm
Pins are tinned

Optional pins: 1-8/4-5

TYPES

Horizontal	Vertical	Rated current per winding	Rated inductance per winding	DC resistance per winding (typical)
Code	Code	A	mH	m Ω
42H32 05 01	42V32 05 01	0.5	82	1500
42H32 05 00	42V32 05 00	0.5	100	1500
42H32 10 01	42V32 10 01	1.0	33	630
42H32 10 00	42V32 10 00	1.0	47	750
42H32 15 01	42V32 15 01	1.5	27	490
42H32 15 00	42V32 15 00	1.5	22	330
42H32 20 00	42V32 20 00	2.0	6.8	139
42H32 20 01	42V32 20 01	2.0	10	230
42H32 40 03	42V32 40 03	4.0	3.3	68
42H32 40 01		4.0	3.9	61
	42V32 40 01	4.0	3.9	80
42H32 60 00		6.0	1.8	25
	42V32 60 00	6.0	1.8	38

Technical Data

Rated current: referred to 250 V-50 Hz and +60°C ambient temperature
Inductance tolerance: +50 -30%
Climatic category: DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings: < 55°C
Approx. weight: 28 g

More technical date see p. 19

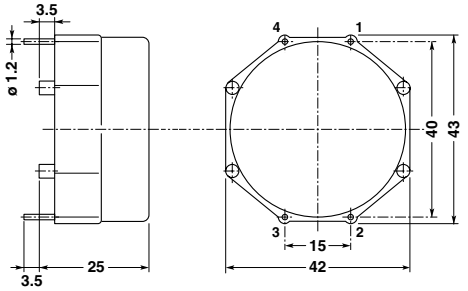
Approval: VDE

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

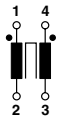
CASE VERSION

Voltage **250 Vac**
Current **1 to 10 A**

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



o Pins
• Start of winding

42H42
Horizontal mounting

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) m Ω
42H42 10 00	1	68	1000
42H42 20 00	2	18	230
42H42 40 00	4	6.8	60
42H42 60 00	6	3.9	38
42H42 80 00	8	2.7	22
42H42 A0 00	10	1.8	14

Technical Data

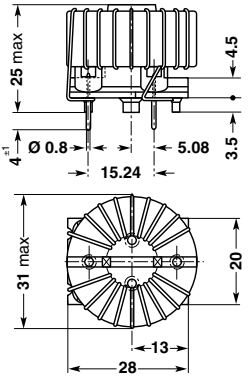
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 10 kHz, 0.1 mA.
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; 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
Approval:	VDE

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

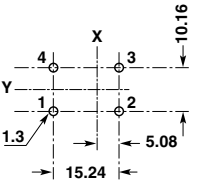
SOCKET VERSION
Horizontal mounting

Voltage **250 Vac**
Current **0.5 to 4 A**

These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used as power line filter 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.

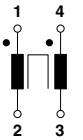


viewed on component side



32H25 SKP
Horizontal mounting

Dimensions in mm
Pins are tinned



o Pins
• Start of winding

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) m Ω
32H25 05 00 SKP	0.5	100	1400
32H25 10 00 SKP	1	47	660
32H25 15 00 SKP	1.5	22	250
32H25 20 00 SKP	2	6.8	120
32H25 40 00 SKP	4	3.3	40

Table shows the standard types. Other types can be supplied according to customer's specifications.

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 I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
Ambient temperature:	+60°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:	24 g
Approval:	VDE

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

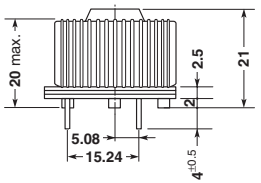
Current-compensated Noise Suppression Chokes

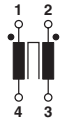
SOCKET VERSION
Horizontal Mounting

Voltage 250 Vac
Current 10 to 16 A

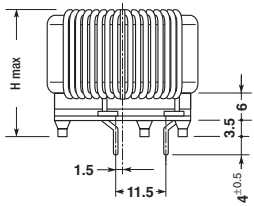
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used as power line filter in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm
Pins are tinned

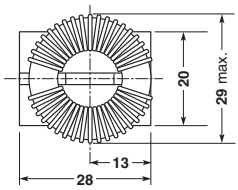


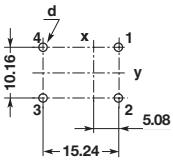


o Pins
• Start of winding



o Pins
• Start of winding

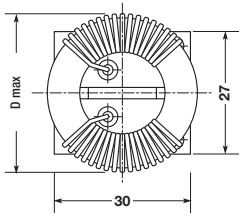


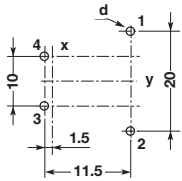


XY: core axes

32H25 SK
Horizontal mounting

viewed on component side





XY: core axes

32H31 SL 32H36 SL
Horizontal mounting

viewed on component side

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) m Ω	H mm	D mm	d mm	Approx. weight g
32H25 A0 00 SK	10	1.5	10	28	37	1.6	24
32H31 A0 00 SL	10	3.9	18	28	37	1.6	46
32H25 A6 00 SK	16	0.68	4	28	37	1.7	29
32H31 A6 01 SL	16	1.2	9	28	37	2	48
32H36 A0 00 SL	10	1.8	14	30	43	1.5	57
32H36 A6 00 SL	16	2.7	15	30	43	2	62

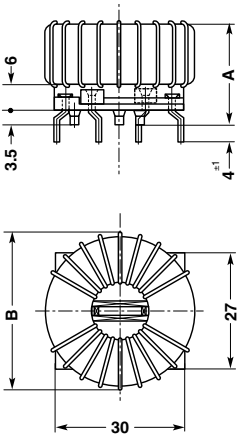
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The socket is of flame-retardant plastic material in accordance with UL 94V-0

See technical data p. 20

SOCKET VERSION
Horizontal mounting

Voltage **250 Vac**
Current **6 to 20 A**

These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used as power line filter 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.

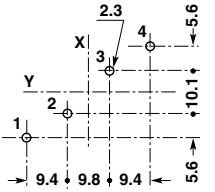


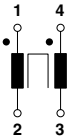
32H25 TA
32H31 TA
Horizontal mounting

Dimensions in mm
Pins are tinned

viewed on
component side

XY = core axes





o Pins
• Start of winding

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding typical m Ω	Dimensions - mm A max.	Dimensions - mm B max.	Approx. weight g	Approval
32H25 60 00 TA	6	1.8	20	21	31	20	VDE
32H25 A0 00 TA	10	1.5	10			24	
32H25 A6 00 TA	16	0.68	4			29	
32H31 60 01 TA	6	3.9	80	28	38	44	
32H31 80 01 TA	8	2.7	21			44	
32H31 A0 01 TA	10	1.8	12			44	
32H31 A6 01 TA	16	1.2	9			50	

Table shows the standard types. Other types can be supplied according to customer's specifications.

VDE Approval VDE

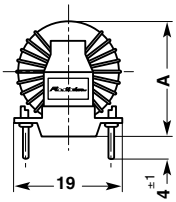
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The socket is of flame-retardant plastic material in accordance with UL 94V-0

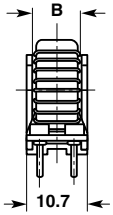
See technical data p. 23

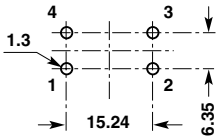
SOCKET VERSION
Vertical mounting

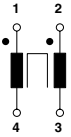
Voltage 250 Vac
Current 0.3 to 3 A

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.









32V12 SV1P
32V16 SV1P
Vertical mounting

Dimensions in mm
Pins are tinned

viewed on component side

o Pins
• Start of winding

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding typical m Ω	Dimensions mm A max.	Dimensions mm B max.	Overall dimensions on PCB max.	Approx. weight g	Approval
32V12 05 00 SV1P	0.5	18	940	21	7.5	20 x 11	8	
32V12 10 00 SV1P	1	6.8	400	21	7.5	20 x 11	8	VDE
32V12 20 00 SV1P	2	3.9	160					
32V12 25 00 SV1P	2.5	2.7	100					
32V12 30 00 SV1P	3	1	50					
32V16 03 00 SV1P	0.3	47	1400	23	9	22 x 11	10	VDE
32V16 05 00 SV1P	0.5	27	1200					
32V16 10 00 SV1P	1	10	450					
32V16 20 00 SV1P	2	2.2	70					

Table shows the standard types. Other types can be supplied according to customer's specifications.

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 I^R
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

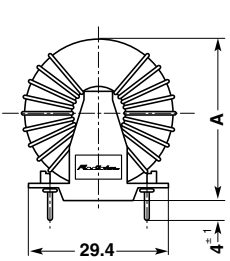
VDE Approval VDE

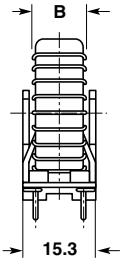
The chokes are designed and tested in accordance with EN 138100, EN 60938-1
The socket is of flame-retardant plastic material in accordance with UL 94V-0

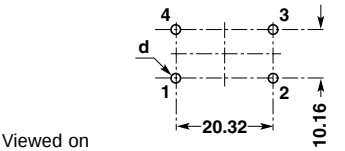
SOCKET VERSION
Vertical mounting

Voltage 250 Vac
Current 0.5 to 16 A

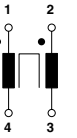
These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.







Viewed on component side



o Pins
• Start of winding

32V SV2P
32V SV2
Vertical mounting

Dimensions in mm
Pins are tinned

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding typical m Ω	Dimensions mm			Overall dimensions on PCB max.	Approx. weight g	Approval
				A max.	B max.	d			
32V23 10 00 SV2P	1	27	600	29	9.6	1.3	28 x 16	14	VDE
32V23 20 00 SV2P	2	5.6	170						
32V23 40 00 SV2P	4	2.7	45						
32V25 05 00 SV2P	0.5	100	1400	32	12.5	1.3	31 x 16	22	VDE
32V25 10 00 SV2P	1	47	660						
32V25 15 00 SV2P	1.5	22	250						
32V25 20 00 SV2P	2	6.8	120						
32V25 40 00 SV2P	4	3.3	40						
32V25 60 00 SV2	6	1.8	20						
32V25 A0 00 SV2	10	1.5	10	32	15.5	1.5	31 x 16	24	
32V25 A6 00 SV2	16	0.68	4	34	15.5	2	33 x 16	29	

Table shows the standard types. Other types can be supplied according to customer's specifications.

VDE Approval VDE

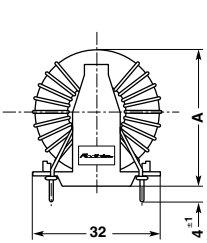
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The socket is of flame-retardant plastic material in accordance with UL 94V-0

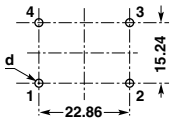
See technical data p. 23.

SOCKET VERSION
Vertical mounting

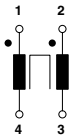
Voltage 250 Vac
Current 1 to 16 A

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.





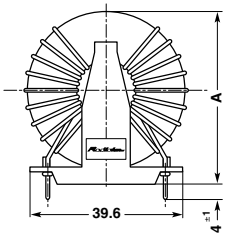
32V SV3P
32V SV3
Vertical mounting

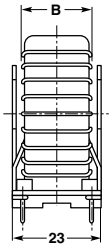


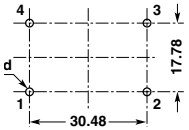
o Pins
• Start of winding

Viewed on component side

Pins are tinned
Dimensions in mm







32V SV4P
32V SV4
Vertical mounting

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding typical m Ω	Dimensions mm A max.	B max.	d	Overall dimensions on PCB max.	Approx. weight g	Approval
32V31 10 01 SV3P	1	68	1000	40	17	1.3	39 x 21	45	
32V31 20 01 SV3P	2	18	230						
32V31 40 01 SV3P	4	6.8	60						
32V31 60 01 SV3	6	3.9	38						
32V31 80 01 SV3	8	2.7	21						
32V31 A0 01 SV3	10	1.8	12	40	17	1.5	39 x 21	45	
32V31 A6 01 SV3	16	1.2	9	40	17	2	38 x 28	47	
32V36 10 00 SV4P	1	68	1150	43	18	1.3	42 x 23	57	VDE
32V36 20 00 SV4P	2	18	300						
32V36 40 00 SV4P	4	6.8	87						
32V36 60 00 SV4	6	3.9	41						
32V36 80 00 SV4	8	2.7	22						
32V36 A0 00 SV4	10	1.8	14	43	18	1.5	42 x 23	57	VDE
32V36 A6 00 SV4	16	2.7	15	43	23	2	42 x 23	62	

Table shows the standard types. Other types can be supplied according to customer's specifications.

Approval VDE

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

See technical data p. 23.

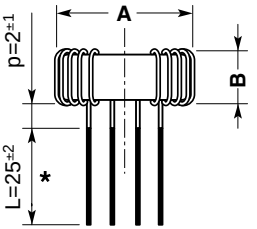
Voltage 250 Vac
Current 0.3 to 20 A

OPEN VERSION

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.

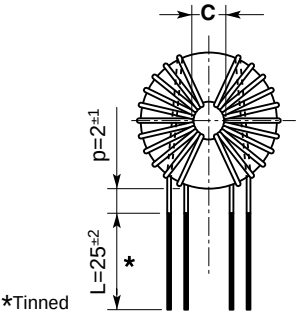
Dimensions in mm

Other terminal lengths on request



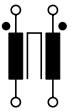
*Tinned

32H
Horizontal mounting



*Tinned

32V
Vertical mounting



• Start of winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 10 kHz, 0.1mA.
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
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

Approval VDE

The chokes are designed and tested in accordance with EN 138100; EN 60938-1

See types p. 27

OPEN VERSION

Voltage 250 Vac
Current 0.3 to 10 A

TYPES

Horizontal	Vertical	Rated current per winding A	Rated inductance per winding mH	DCR typical per winding m Ω	Dimensions - mm			Approx. weight	Approval
Code	Code				A max.	B max.	C min.	g	
32H12 10 00	32V12 10 00	1	6.8	400	17	7.5	5	5	
32H12 20 00	32V12 20 00	2	3.9	160					
32H12 25 00	32V12 25 00	2.5	2.7	100					
32H12 30 00	32V12 30 00	3	1	50					
32H16 03 00	32V16 03 00	0.3	47	1400	18.5	9	6	7	
32H16 05 00	32V16 05 00	0.5	27	1200					
32H16 10 00	32V16 10 00	1	10	450					
32H16 20 00	32V16 20 00	2	2.2	70					
32H16 30 00	32V16 30 00	3	1.2	70					
32H23 05 00	32V23 05 00	0.5	56	2000	24.6	9.6	10.8	10	
32H23 10 00	32V23 10 00	1	27	600					
32H23 20 00	32V23 20 00	2	5.6	170					
32H23 40 00	32V23 40 00	4	2.7	45					
32H25 05 00	32V25 05 00	0.5	100	1400	30	12.5	11.5	18	
32H25 10 00	32V25 10 00	1	47	660					
32H25 15 00	32V25 15 00	1.5	22	250					
32H25 20 00	32V25 20 00	2	6.8	120					
32H25 40 00	32V25 40 00	4	3.3	40					
32H25 60 00	32V25 60 00	6	1.8	20					
32H31 10 01	32V31 10 01	1	68	1000	37	17	14	40	
32H31 20 01	32V31 20 01	2	18	230					
32H31 40 01	32V31 40 01	4	6.8	60					
32H31 60 01	32V31 60 01	6	3.9	38					
32H31 80 01	32V31 80 01	8	2.7	21					
32H31 A0 01	32V31 A0 01	10	1.8	12					
32H31 A6 01	32V31 A6 01	16	1.2	8					
32H31 B0 01	32V31 B0 01	20	0.9	6	42	19	17	50	
32H36 10 00	32V36 10 00	1	68	1150	39	18	20	50	
32H36 20 00	32V36 20 00	2	18	300					
32H36 40 00	32V36 40 00	4	6.8	87					
32H36 60 00	32V36 60 00	6	3.9	41					
32H36 80 00	32V36 80 00	8	2.7	22					
32H36 A0 00	32V36 A0 00	10	1.8	14					
32H36 A6 00	32V36 A6 00	16	2.7	14	43	22	14	54	
32H36 B0 00	32V36 B0 00	20	1.5	8	44	23	11	57	

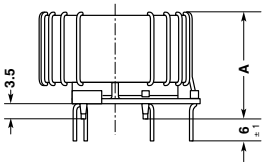
The table shows the standard types. Other types can be supplied according to customer's specifications.
See technical data p. 26

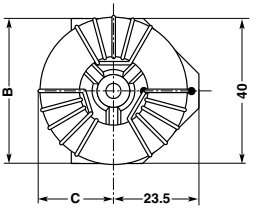
SOCKET VERSION
Horizontal mounting

Voltage **380 Vac**
Current **6 to 16A**

These chokes are fitted with high-permeability toroid core (ferrite). They are mainly used as power line filter in three-phase networks to prevent both the spread of parasitic noise from the electrical equipment, and the effects of line noise on the equipment itself.

Dimensions in mm
Pins are tinned

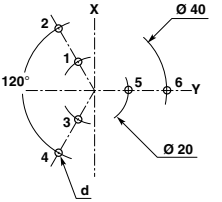


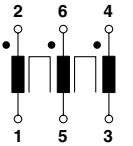


38H31 SM
38H36 SM
Horizontal mounting

viewed on component side

XY = core axes





o Pins
• Start of winding

TYPES

Code	Rated current per winding A	Rated inductance per winding mH	DC resistance per winding (typical) m Ω	Dimensions mm				Approx. weight g
				A max.	B max.	C max.	d	
38H31 60 00 SM	6	3	40	28	40	20	1.3	45
38H31 A0 00 SM	10	2	25				1.5	
38H31 A6 00 SM	16	1	15				2	
38H36 60 00 SM	6	5	55	30	44	22	1.3	57
38H36 A0 00 SM	10	3	35				1.5	
38H36 A6 00 SM	16	1.5	15				2	

Table shows the standard types. Other types can be supplied according to customer's specifications.

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 I^R
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

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

Current-compensated Noise Suppression Chokes

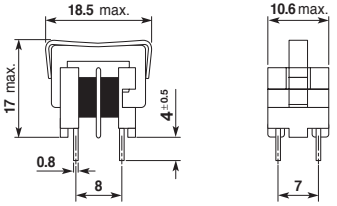
TYPES
42U9V2

Voltage 250 Vac
Current 0.18 to 1.1 A

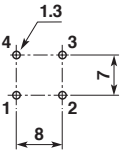
LINEAR VERSION

These chokes are fitted with two high-permeability U9 cores (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



42U9V2



viewed on
component side

o Pins
• Start of winding

TYPES

Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω	Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42U9V2 01 80	0.18	47	7	42U9V2 05 00	0.5	6.8	0.95
42U9V2 02 60	0.26	27	3.5	42U9V2 08 00	0.8	2.7	0.4
42U9V2 03 50	0.35	15	2	42U9V2 11 00	1.1	1.5	0.21

Values per winding

Technical Data

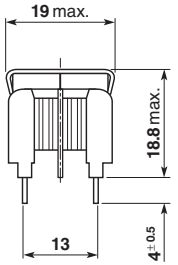
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity 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
Pending Approval:	VDE

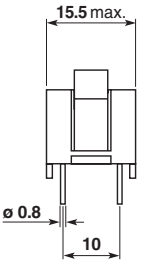
The chokes are designed and tested in accordance with EN 138100; EN 60938
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

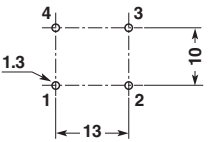
Voltage **250 Vac**
Current **0.3 to 2 A**

LINEAR VERSION

These chokes are fitted with two high-permeability U11 cores (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.







viewed on
component side

Dimensions in mm
Pins are tinned

o Pins
• Start of winding

42U11V2
Vertical mounting

TYPES

Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω	Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42U11V2 03 00	0.3	56	4.0	42U11V2 10 00	1.0	6.8	0.46
42U11V2 04 00	0.4	39	2.7	42U11V2 12 00	1.2	4.7	0.32
42U11V2 05 00	0.5	27	1.8	42U11V2 13 00	1.3	3.9	0.26
42U11V2 06 00	0.6	15	1.2	42U11V2 15 00	1.5	2.7	0.22
42U11V2 07 00	0.7	12	0.86	42U11V2 17 00	1.7	2.2	0.18
42U11V2 08 00	0.8	10	0.64	42U11V2 20 00	2.0	1.8	0.15

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
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:	13 g
Approval:	VDE

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

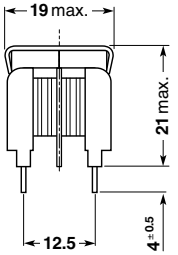
Voltage **250 Vac**
Current **0.3 to 2 A**

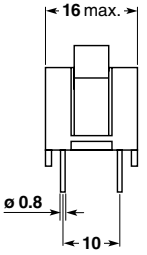
LINEAR VERSION

These chokes are fitted with two high-permeability U11 cores (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.

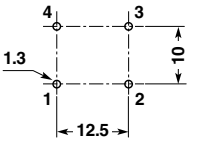
Dimensions in mm
Pins are tinned

NEW

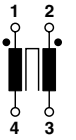




42U13V2



viewed on component side



∘ Pins
• Start of winding

TYPES

Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω	Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42U13V2 03 00	0.3	56	4.0	42U13V2 10 00	1.0	6.8	0.46
42U13V2 04 00	0.4	39	2.7	42U13V2 12 00	1.2	4.7	0.32
42U13V2 05 00	0.5	27	1.8	42U13V2 13 00	1.3	3.9	0.26
42U13V2 06 00	0.6	15	1.2	42U13V2 15 00	1.5	2.7	0.22
42U13V2 07 00	0.7	12	0.86	42U13V2 17 00	1.7	2.2	0.18
42U13V2 08 00	0.8	10	0.64	42U13V2 20 00	2.0	1.8	0.15

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
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:	13 g
Pending Approval:	VDE

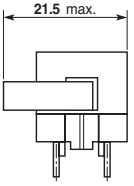
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

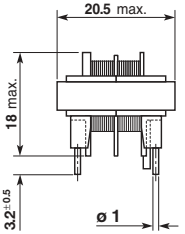
Voltage 250 Vac
Current 0.4 to 1.9 A

LINEAR VERSION

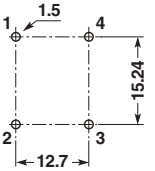
These chokes are fitted with two high-permeability U15 cores (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.

Dimensions in mm
Pins are tinned





42U15H2



viewed on
component side

o Pins
• Start of winding

TYPES

Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω	Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42U15H2 04 00	0.4	15	1.92	42U15H2 08 50	0.85	20	0.45
42U15H2 05 50	0.55	1	1.04	42U15H2 10 50	1.05	3	0.29
42U15H2 06 00	0.6	27	0.8	42U15H2 13 00	1.3	1.5	0.18
42U15H2 07 00	0.7	19	0.62	42U15H2 19 00	1.9	0.3	0.09
42U15H2 07 50	0.75	17	0.58				

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Inductance tolerance:	+50 -30%
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings:	< 55°C
Approx. weight:	17 g
Pending Approval:	VDE-EN 138100

More technical data see p. 30-1.
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

Current-compensated Noise Suppression Chokes

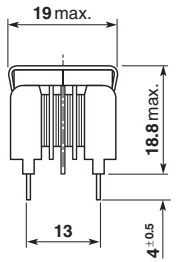
TYPES
42U11V4

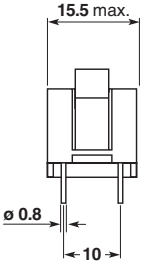
Voltage 250 Vac
Current 0.3 to 2 A

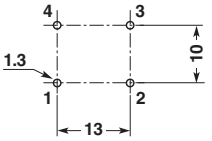
LINEAR VERSION

These chokes are fitted with two high-permeability U11 cores (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







viewed on component side

o Pins
• Start of winding

42U11V4

TYPES

Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω	Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42U11V4 03 01	0.3	47	4.5	42U11V4 13 01	1.3	2.7	0.25
42U11V4 04 01	0.4	27	2.7	42U11V4 15 01	1.5	2.2	0.21
42U11V4 05 01	0.5	18	1.6	42U11V4 17 01	1.7	1.7	0.16
42U11V4 07 01	0.7	10	0.95	42U11V4 20 01	2	1.2	0.12
42U11V4 10 01	1	4.7	0.44				

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
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:	13 g
Pending Approval:	VDE

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

Current-compensated Noise Suppression Chokes

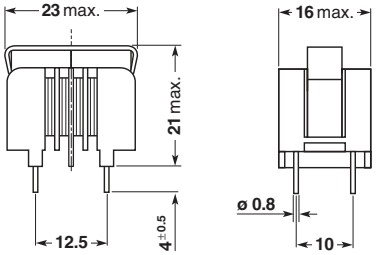
TYPES
42U13V4

Voltage 250 Vac
Current 0.3 to 2 A

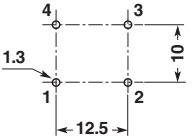
LINEAR VERSION

These chokes are fitted with two high-permeability U11 cores (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



42U13V4



viewed on
component side

o Pins
• Start of winding

TYPES

Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω	Code	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42U13V4 03 01	0.3	47	4.5	42U13V4 13 01	1.3	2.7	0.25
42U13V4 04 01	0.4	27	2.7	42U13V4 15 01	1.5	2.2	0.21
42U13V4 05 01	0.5	18	1.6	42U13V4 17 01	1.7	1.7	0.16
42U13V4 07 01	0.7	10	0.95	42U13V4 20 01	2	1.2	0.12
42U13V4 10 01	1	4.7	0.44				

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
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:	13 g
Pending Approval:	VDE

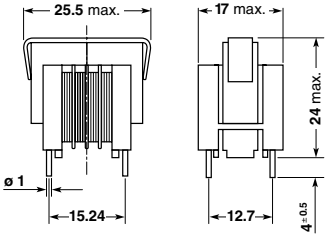
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

Voltage 250 Vac
Current 0.35 to 1.45 A

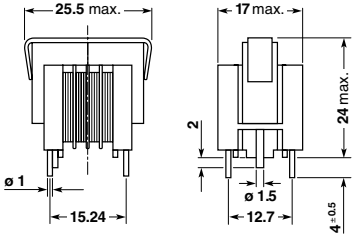
LINEAR VERSION

These chokes are fitted with two high-permeability cores (ferrite) U15 type. Each winding is split in two sections to reduce the winding capacitance. 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.

NEW

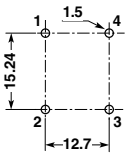


∘ Pins
• Start of winding



∘ Pins
• Start of winding

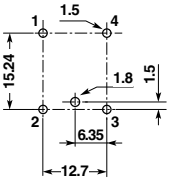
42U15V 4A



viewed on component side

Dimensions in mm
Pins are tinned

42U15V 4B



TYPES

42U15V 4A	42U15V 4B	Rated current	Rated inductance	DC resistance (typical)
Code	Code	A	mH	Ω
42U15V 4A 03 00	42U15V 4B 03 00	0.35	30	4.30
42U15V 4A 04 00	42U15V 4B 04 00	0.45	68	2.40
42U15V 4A 06 00	42U15V 4B 06 00	0.65	47	1.30
42U15V 4A 08 00	42U15V 4B 08 00	0.80	27	0.80
42U15V 4A 09 00	42U15V 4B 09 00	0.95	23	0.60
42U15V 4A 10 00	42U15V 4B 10 00	1.05	15	0.45
42U15V 4A 15 00	42U15V 4B 15 00	1.45	5	0.25

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Inductance tolerance:	+50 -30%
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings:	< 55°C
Approx. weight:	17 g
Pending Approval:	VDE

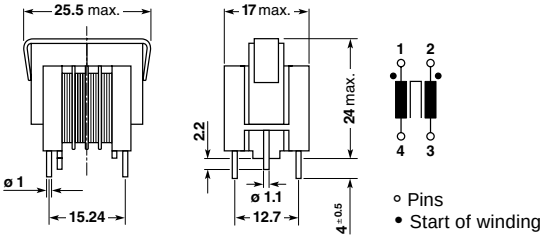
More technical data see p. 30.
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

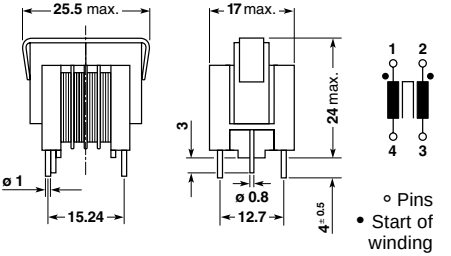
NEW

LINEAR VERSION

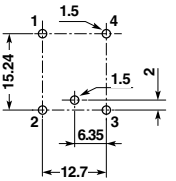
Voltage 250 Vac
Current 0.35 to 1.45 A

These chokes are fitted with two high-permeability cores (ferrite) U15 type. Each winding is split in two sections to reduce the winding capacitance. 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.





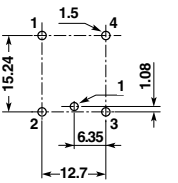
42U15V 4C



viewed on component side

Dimensions in mm
Pins are tinned

42U15V 4D



TYPES

42U15V 4C	42U15V 4D	Rated current	Rated inductance	DC resistance (typical)
Code	Code	A	mH	Ω
42U15V 4C 03 00	42U15V 4D 03 00	0.35	30	4.30
42U15V 4C 04 00	42U15V 4D 04 00	0.45	68	2.40
42U15V 4C 06 00	42U15V 4D 06 00	0.65	47	1.30
42U15V 4C 08 00	42U15V 4D 08 00	0.80	27	0.80
42U15V 4C 09 00	42U15V 4D 09 00	0.95	23	0.60
42U15V 4C 19 00	42U15V 4D 10 00	1.05	15	0.45
42U15V 4C 15 00	42U15V 4D 15 00	1.45	5	0.25

Values per winding

Technical Data

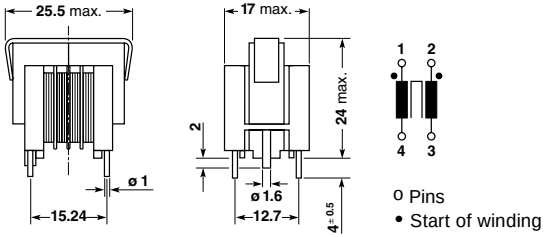
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Inductance tolerance:	+50 -30%
Climatic category:	DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings:	< 55°C
Approx. weight:	17 g
Pending Approval:	VDE

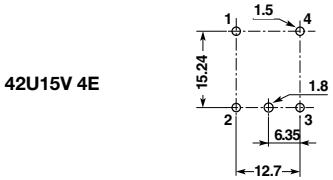
More technical data see p. 30.
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

Voltage 250 Vac
Current 0.35 to 1.45 A

LINEAR VERSION

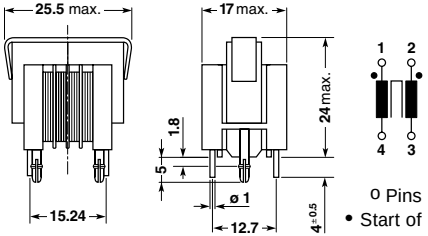
These chokes are fitted with two high-permeability cores (ferrite). Each winding is split in two sections to reduce the winding capacitance. They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.



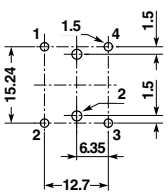


42U15V 4E

Dimensions in mm
Pins are tinned



NEW



42U15V 4P

TYPES

42U15V 4E	42U15V 4P	Rated current	Rated inductance	DC resistance (typical)
Code	Code	A	mH	Ω
42U15V 4E 03 00	42U15V 4P 03 00	0.35	30	4.30
42U15V 4E 04 00	42U15V 4P 04 00	0.45	68	2.40
42U15V 4E 06 00	42U15V 4P 06 00	0.65	47	1.30
42U15V 4E 08 00	42U15V 4P 08 00	0.80	27	0.80
42U15V 4E 09 00	42U15V 4P 09 00	0.95	23	0.60
42U15V 4E 10 00	42U15V 4P 10 00	1.05	15	0.45
42U15V 4E 15 00	42U15V 4P 15 00	1.45	5	0.25

Values per winding

Technical Data

Rated current: referred to 250 V-50 Hz and +60°C ambient temperature
Inductance tolerance: +50 -30%
Climatic category: DIN GKC (-40 to +125°C; humidity cat. C)
Overtemperature of windings: < 55°C
Approx. weight: 17 g

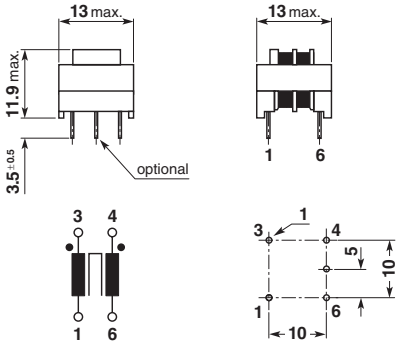
Pending Approval: VDE

More technical data see p. 30.
The chokes are designed and tested in accordance with EN 138100; EN 60938-1
The coil formers are of flame-retardant plastic material in accordance with UL 94V-0

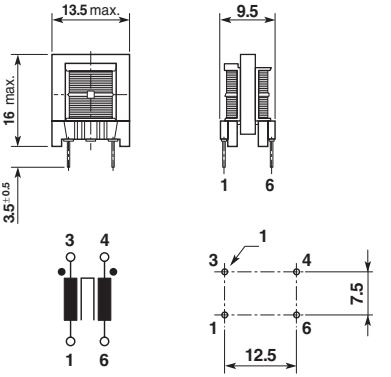
Voltage 250 Vac
Current 0.15 to 0.35 A

LINEAR VERSION

These chokes are fitted with two high-permeability E13 cores (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



42E13H2 **42E13V2**

TYPES

Horizontal mounting	Vertical mounting	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42E13H2 01 00	42E13V2 01 00	0.15	39	4.4
42E13H2 02 00	42E13V2 02 00	0.2	27	2.2
42E13H2 02 01	42E13V2 02 01	0.25	18	1.45
42E13H2 03 01	42E13V2 03 01	0.35	10	0.73

Values per winding

Technical Data

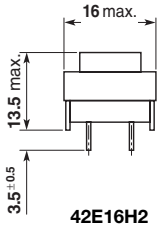
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity 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:	13 g

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

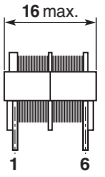
Voltage **250 Vac**
Current **0.25 to 0.6 A**

LINEAR VERSION

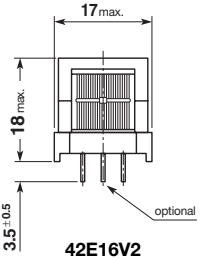
These chokes are fitted with two high-permeability E16 cores (ferrite). They are mainly used in devices equipped with switched-mode power supplies, and in filters designed to prevent both the spread of parasitic noise within the device, and the effects of line noise on the device itself.



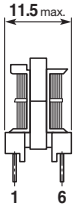
42E16H2

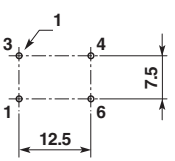


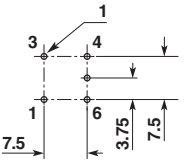
Dimensions in mm
Pins are tinned



42E16V2







TYPES

Horizontal mounting	Vertical mounting	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42E16H2 02 01	42E16V2 02 01	0.25	39	2.5
42E16H2 03 01	42E16V2 03 01	0.35	27	1.5
42E16H2 04 00	42E16V2 04 00	0.4	18	1.1
42E16H2 06 00	42E16V2 06 00	0.6	10	0.7

Values per winding

Technical Data

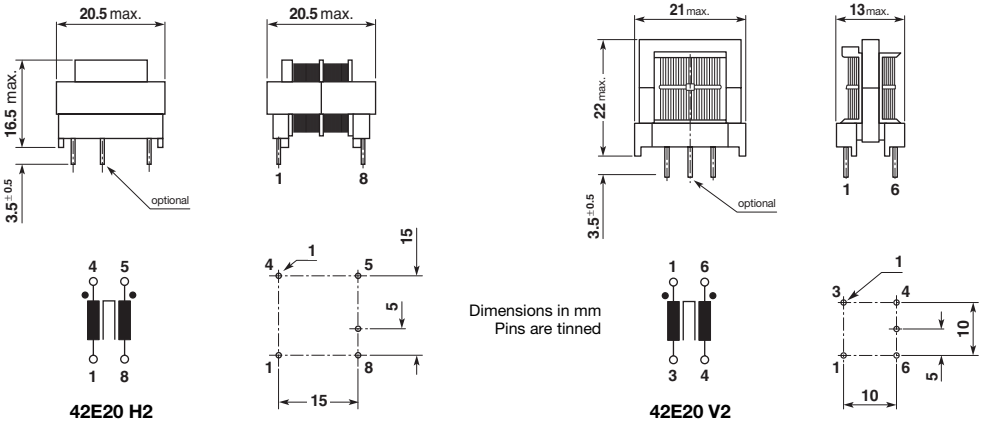
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity 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:	13 g
Pending Approval:	VDE

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

Voltage **250 Vac**
Current **0.2 to 1 A**

LINEAR VERSION

These chokes are fitted with two high-permeability E20 cores (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.



42E20 H2 **42E20 V2**

TYPES

Horizontal mounting	Vertical mounting	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42E20H2 02 00	42E20V2 02 00	0.2	47	5.3
42E20H2 04 00	42E20V2 04 00	0.4	39	1.6
42E20H2 08 00	42E20V2 08 00	0.8	18	0.72
42E20H2 10 00	42E20V2 10 00	1	10	0.53

Values per winding

Technical Data

Rated current: referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance: at +20°C and 1 kHz, 1 Vac
Inductance tolerance: +50 -30%
Inductance loss: < 10% at DC initial loading with I^R

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: 13 g

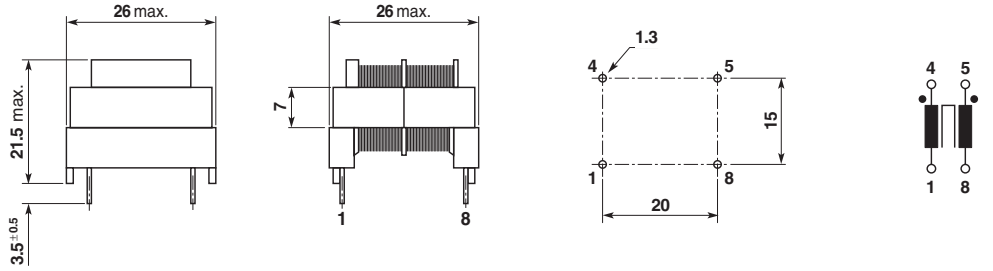
Pending Approval: VDE

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

Voltage **250 Vac**
Current **0.4 to 1.5 A**

LINEAR VERSION

These chokes are fitted with two high-permeability E25 cores (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.



43E25 H2

Dimensions in mm
Pins are tinned

TYPES

Horizontal mounting	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42E25H2 04 00	0.4	47	1.76
42E25H2 07 00	0.7	39	1.1
42E25H2 12 00	1.2	27	0.647
42E25H2 15 00	1.5	18	0.45

Values per winding

Technical Data

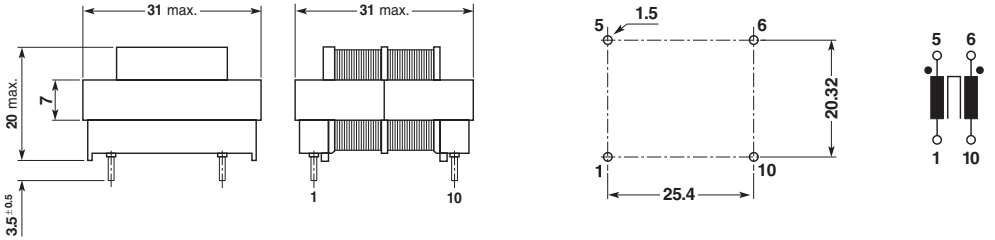
Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
Testing voltage:	1500 V -50 Hz, 2 sec, winding to winding
Climatic category:	DIN GKC (-40 to +125°C; humidity 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:	13 g
Pending Approval:	VDE

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

Voltage **250 Vac**
Current **1.5 to 1.8 A**

LINEAR VERSION

These chokes are fitted with two high-permeability E30 cores (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.



42E30 H2

Dimensions in mm
Pins are tinned

TYPES

Horizontal mounting	Rated current A	Rated inductance mH	DC resistance (typical) Ω
42E30H2 15 00	1.5	33	0.56
42E30H2 18 00	1.8	27	0.4

Values per winding

Technical Data

Rated current:	referred to 250 V-50 Hz and +60°C ambient temperature
Rated inductance:	at +20°C and 1 kHz, 1 Vac
Inductance tolerance:	+50 -30%
Inductance loss:	< 10% at DC initial loading with I^R
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:	13 g
Pending Approval:	VDE

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