

ZEICHENGENEHMIGUNG MARKS APPROVAL

Guangdong Fenghua Advanced Technology Holding Co., Ltd.
Xianhua New Sensitive Components Branch
3rd Building, Fenghua Electronic
Industrial City, 18th Fenghua Road
526020 Zhaoqing
Guangdong China

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Varistor
Varistor

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN IEC 61051-1:2019-07; EN IEC 61051-1:2018

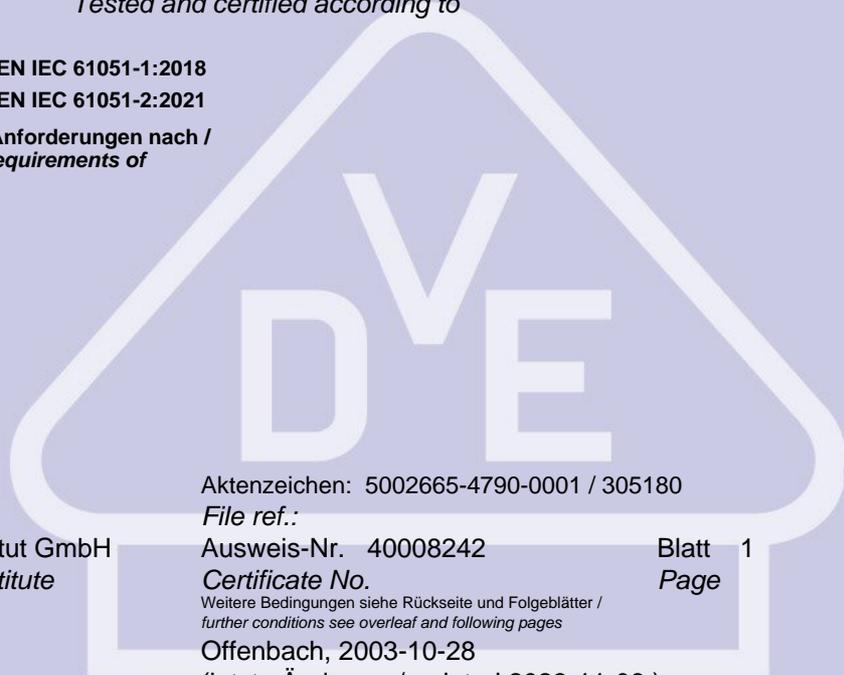
DIN EN IEC 61051-2:2023-10; EN IEC 61051-2:2021

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of

IEC 61051-1:2018

IEC 61051-2:2021

IEC 61051-2-2:1991



Aktenzeichen: 5002665-4790-0001 / 305180

File ref.:

Ausweis-Nr. 40008242

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2003-10-28

(letzte Änderung/updated 2023-11-06)

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VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

T. Stenger

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Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Guangdong Fenghua Advanced Technology Holding Co., Ltd., Xianhua New Sensitive, Components Branch,
3rd Building, Fenghua Electronic, Industrial City, 18th Fenghua Road, 526020 ZHAOQING, Guangdong, CHINA

Aktenzeichen / *File ref.*

5002665-4790-0001 / 305180 / TL7 / WES

letzte Änderung / *updated*

2023-11-06

Datum / *Date*

2003-10-28

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40008242.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40008242.

Varistor

Varistor

Typ(en) / *Type(s)*

FNR-07K180 bis/to FNR-07K561

FNR-07T180K bis/to FNR-07T561K

FNR-07H180K bis/to FNR-07H621K

FNR-10K180 bis/to FNR-10K112

FNR-10T180K bis/to FNR-10T102K

FNR-10H180K bis/to FNR-10H112K

FNR-10C271K bis/to FNR-10C102K

FNR-14K180 bis/to FNR-14K182

FNR-14T180K bis/to FNR-14T102K

FNR-14H180K bis/to FNR-14H112K

FNR-14C271K bis/to FNR-14C102K

FNR-20K180 bis/to FNR-20K182

FNR-20T180K bis/to FNR-20T102K

FNR-20H180K bis/to FNR-20H112K

FNR-20C271K bis/to FNR-20C102K

Weitere Angaben
Further information

Siehe Anlagen:
200K1 – 200K27 vom 2023-11-06
300M1 – 300M15 vom 2023-11-06

See Appendix:
200K1 – 200K27 dated 2023-11-06
300M1 – 300M15 dated 2023-11-06

Zusätzliche Norm
Additional standard

*Für IEC 62368-1:2018/G.8.1 siehe Anlage 500Z1 + 500Z2
vom 2023-11-06*

*For IEC 62368-1:2018/G.8.1 see Appendix 500Z1 + 500Z2
dated 2023-11-06*

VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40008242

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Guangdong Fenghua Advanced Technology Holding Co., Ltd., Xianhua New Sensitive, Components Branch,
3rd Building, Fenghua Electronic, Industrial City, 18th Fenghua Road, 526020 ZHAOQING, Guangdong, CHINA

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Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40008242.

This supplement is part of the Certificate No. 40008242.

Varistor

Varistor

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30014393

Guangdong Fenghua Advanced
Technology Holding Co., Ltd.
Xianhua New Sensitive
Components Branch
3rd Building, Fenghua Electronic
Industrial City, 18th Fenghua Road
526020 ZHAOQING
Guangdong
CHINA

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This supplement is only valid in conjunction with page 1 of the Certificate No. 40008242.

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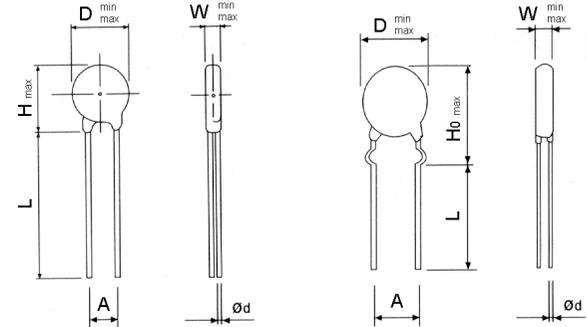
The approval is solely signed on the first page.



Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25 °C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25 °C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-07K180	18	11	14	1.0	16.2	19.8	2.5	36	250	1.3	3500	7.0	9.0	2.0	3.6	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K220	22	14	18	1.0	19.8	24.2	2.5	43	250	1.5	3000	7.0	9.0	2.3	3.8	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K270	27	17	22	1.0	24.3	29.7	2.5	53	250	2.0	2800	7.0	9.0	2.4	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K330	33	20	26	1.0	29.7	36.3	2.5	65	250	2.4	2500	7.0	9.0	2.4	4.4	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K390	39	25	31	1.0	35.1	42.9	2.5	77	250	2.9	2000	7.0	9.0	2.5	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K470	47	30	38	1.0	42.3	51.7	2.5	93	250	3.5	1800	7.0	9.0	2.6	4.1	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K560	56	35	45	1.0	50.4	61.6	2.5	110	250	4.3	1600	7.0	9.0	2.8	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K680	68	40	56	1.0	61.2	74.8	2.5	135	250	5.0	1550	7.0	9.0	2.9	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K820	82	50	65	1.0	73.8	90.2	10.0	135	1200	5.5	1200	7.0	9.0	2.3	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K101	100	60	85	1.0	90	110	10.0	165	1200	6.5	1000	7.0	9.0	2.5	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K121	120	75	100	1.0	108	132	10.0	200	1200	7.8	900	7.0	9.0	2.5	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K151	150	95	125	1.0	135	165	10.0	250	1200	9.7	800	7.0	9.0	2.5	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K181	180	115	150	1.0	162	198	10.0	300	1200	11.7	700	7.0	9.0	2.3	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K201	200	130	170	1.0	180	220	10.0	340	1200	14.0	600	7.0	9.0	2.3	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K221	220	140	180	1.0	198	242	10.0	360	1200	14.0	500	7.0	9.0	2.6	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K241	240	150	200	1.0	216	264	10.0	395	1200	14.0	400	7.0	9.0	2.5	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07K271	270	175	225	1.0	243	297	10.0	455	1200	18.0	300	7.0	9.0	2.6	4.1	12.0	14.0	5.0	1.0	0.6	0.1

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40008242

Aktenzeichen / File reference:

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Anlage / Appendix No.:

200K1

Datum / Date

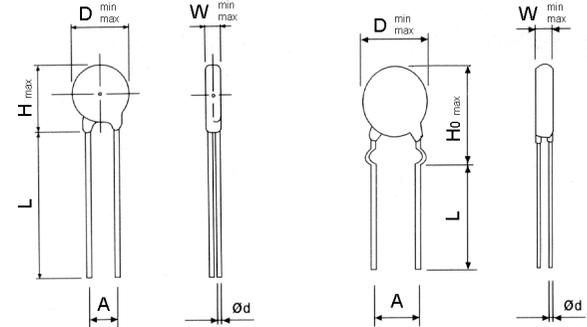
2023-12-12



Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25 °C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25 °C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	Nennbetriebsspannung Supply voltage		Max. Dauerspannung Max. continuous voltage		Bezugsstrom Reference current		Spannung bei Bezugsstrom Voltage at reference current		Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)		Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)		Quellenenergiewert (10/1000) Energy surge rating (10/1000)		Max. Kapazität Max. capacitance		Abmessungen des "Endproduktes" / Dimensions of the "final product"		Tolerances		
	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-10K180	18	11	14	1.0	16.2	19.8	5	36	500	2.9	7500	10.0	13.5	2.4	4.1	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K220	22	14	18	1.0	19.8	24.2	5	43	500	3.5	6500	10.0	13.5	2.5	4.2	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K270	27	17	22	1.0	24.3	29.7	5	53	500	4.2	6000	10.0	13.5	2.6	4.3	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K330	33	20	26	1.0	29.7	36.3	5	65	500	5.6	5500	10.0	13.5	2.3	5.1	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K390	39	25	31	1.0	35.1	42.9	5	77	500	6.4	5000	10.0	13.5	2.5	5.3	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K470	47	30	38	1.0	42.3	51.7	5	93	500	7.7	4500	10.0	13.5	3.1	4.8	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K560	56	35	45	1.0	50.4	61.6	5	110	500	9.8	4000	10.0	13.5	2.9	4.8	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K680	68	40	56	1.0	61.2	74.8	5	135	500	11	3000	10.0	13.5	3.0	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K820	82	50	65	1.0	73.8	90.2	25	135	2500	12	2800	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K101	100	60	85	1.0	90	110	25	165	2500	15	2400	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K121	120	75	100	1.0	108	132	25	200	2500	18	2200	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K151	150	95	125	1.0	135	165	25	250	2500	22	1800	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K181	180	115	150	1.0	162	198	25	300	2500	27	1500	10.0	13.5	2.8	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K201	200	130	170	1.0	180	220	25	340	2500	30	1000	10.0	13.5	2.6	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K221	220	140	180	1.0	198	242	25	360	2500	32	800	10.0	13.5	2.8	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K241	240	150	200	1.0	216	264	25	395	2500	35	700	10.0	13.5	3.0	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10K271	270	175	225	1.0	243	297	25	455	2500	40	600	10.0	13.5	2.9	5.4	16.5	18.5	7.5	1.0	0.8	0.1

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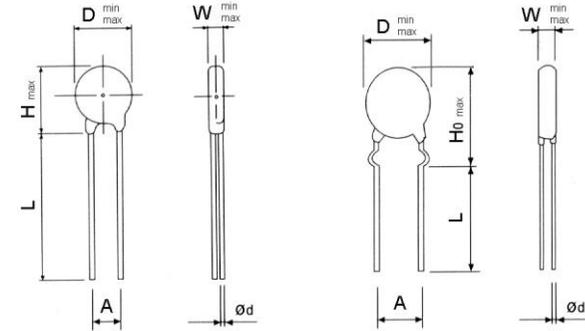
2023-12-12



Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
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Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-10K301	300	195	250	1.0	270	330	25.0	500	2500	40	550	10.0	13.5	3.0	5.4	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K331	330	210	275	1.0	297	363	25.0	550	2500	43	550	10.0	13.5	3.3	5.4	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K361	360	230	300	1.0	324	396	25.0	595	2500	47	500	10.0	13.5	3.2	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K391	390	250	320	1.0	351	429	25.0	650	2500	60	450	10.0	13.5	3.8	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K431	430	275	350	1.0	387	473	25.0	710	2500	65	430	10.0	13.5	3.9	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K471	470	300	385	1.0	423	517	25.0	775	2500	70	400	10.0	13.5	4.0	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K511	510	320	410	1.0	459	561	25.0	840	2500	70	350	10.0	13.5	4.7	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K561	560	350	455	1.0	504	616	25.0	925	2500	70	300	10.0	13.5	4.8	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K621	620	385	505	1.0	558	682	25.0	1025	2500	70	300	10.0	13.5	4.9	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K681	680	420	560	1.0	612	748	25.0	1120	2500	72	280	10.0	13.5	5.0	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K751	750	460	615	1.0	675	825	25.0	1240	2500	75	250	10.0	13.5	5.4	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K781	780	485	640	1.0	702	858	25.0	1290	2500	75	250	10.0	13.5	5.6	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K821	820	510	670	1.0	738	902	25.0	1355	2500	85	240	10.0	13.5	5.7	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K911	910	550	745	1.0	819	1001	25.0	1500	2500	93	230	10.0	13.5	6.0	8.7	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K102	1000	625	825	1.0	900	1100	25.0	1650	2500	102	220	10.0	13.5	6.2	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10K112	1100	680	895	1.0	990	1210	25.0	1815	2500	115	200	10.0	13.5	6.6	9.0	17.0	19.0	7.5	1.0	0.8	0.1

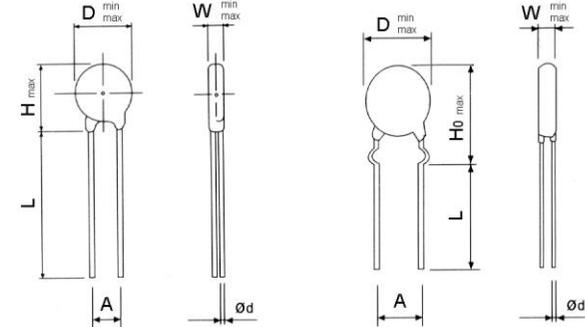
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-14K180	18	11	14	1.0	16.2	19.8	10	36	1000	5	18000	14.0	17.0	2.4	4.1	20	23.0	7.5	1.0	0.8	0.1
FNR-14K220	22	14	18	1.0	19.8	24.2	10	43	1000	6	15000	14.0	17.0	2.8	4.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14K270	27	17	22	1.0	24.3	29.7	10	53	1000	7	13000	14.0	17.0	2.8	4.5	20	23.0	7.5	1.0	0.8	0.1
FNR-14K330	33	20	26	1.0	29.7	36.3	10	65	1000	8.5	12500	14.0	17.0	2.5	5.1	20	23.0	7.5	1.0	0.8	0.1
FNR-14K390	39	25	31	1.0	35.1	42.9	10	77	1000	10	11000	14.0	17.0	2.5	5.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14K470	47	30	38	1.0	42.3	51.7	10	93	1000	12	10000	14.0	17.0	3.2	4.8	20	23.0	7.5	1.0	0.8	0.1
FNR-14K560	56	35	45	1.0	50.4	61.6	10	110	1000	14	9000	14.0	17.0	2.9	4.8	20	23.0	7.5	1.0	0.8	0.1
FNR-14K680	68	40	56	1.0	61.2	74.8	10	135	1000	18	8000	14.0	17.0	3.0	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K820	82	50	65	1.0	73.8	90.2	50	135	4500	22	6500	14.0	17.0	2.5	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K101	100	60	85	1.0	90	110	50	165	4500	28	5000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K121	120	75	100	1.0	108	132	50	200	4500	32	4000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K151	150	95	125	1.0	135	165	50	250	4500	40	3000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K181	180	115	150	1.0	162	198	50	300	4500	52	2000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K201	200	130	170	1.0	180	220	50	340	4500	57	1800	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K221	220	140	180	1.0	198	242	50	360	4500	63	1600	14.0	17.0	2.8	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K241	240	150	200	1.0	216	264	50	395	4500	63	1500	14.0	17.0	3.0	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14K271	270	175	225	1.0	243	297	50	455	4500	70	1200	14.0	17.0	2.9	5.4	20	23.0	7.5	1.0	0.8	0.1

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Datum / Date:

2023-11-06



Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung
 Supply voltage

Max. Dauerspannung
 Max. continuous voltage

Bezugsstrom
 Reference current

Spannung bei Bezugsstrom
 Voltage at reference current

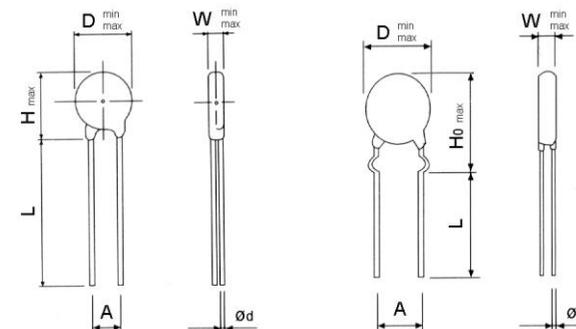
Spannung bei Stromklasse (8/20µs)
 Voltage at class current (8/20µs)

Max. Spitzenstrom (8/20µs 1 mal)
 Max. peak current (8/20µs 1 time)

Quellenenergiewert (10/1000)
 Energy surge rating (10/1000)

Max. Kapazität
 Max. capacitance

Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-14K301	300	195	250	1.0	270	330	50	500	4500	78	1100	14.0	17.0	3.0	5.4	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14K331	330	210	275	1.0	297	363	50	550	4500	85	1000	14.0	17.0	3.3	5.4	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14K361	360	230	300	1.0	324	396	50	595	4500	93	900	14.0	17.5	3.3	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K391	390	250	320	1.0	351	429	50	650	4500	100	850	14.0	17.5	4.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K431	430	275	350	1.0	387	473	50	710	4500	115	850	14.0	17.5	3.9	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K471	470	300	385	1.0	423	517	50	775	4500	125	800	14.0	17.5	4.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K511	510	320	410	1.0	459	561	50	840	4500	125	700	14.0	17.5	4.7	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K561	560	350	455	1.0	504	616	50	925	4500	125	650	14.0	17.5	4.8	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K621	620	385	505	1.0	558	682	50	1025	4500	130	580	14.0	17.5	5.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K681	680	420	560	1.0	612	748	50	1120	4500	136	550	14.0	17.5	5.2	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K751	750	460	615	1.0	675	825	50	1240	4500	143	500	14.0	17.5	5.5	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K781	780	485	640	1.0	702	858	50	1290	4500	150	480	14.0	17.5	5.7	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K821	820	510	670	1.0	738	902	50	1355	4500	157	450	14.0	17.5	5.8	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K911	910	550	745	1.0	819	1001	50	1500	4500	175	400	14.0	17.5	6.2	8.9	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K102	1000	625	825	1.0	900	1100	50	1650	4500	190	380	14.0	17.5	6.4	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K112	1100	680	895	1.0	990	1210	50	1815	4500	213	350	14.0	17.5	6.6	9.0	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14K182	1800	1000	1465	1.0	1620	1980	50	2970	4500	354	250	14.0	18.0	9.0	14.0	21.0	24.0	7.5	1.0	0.8	0.1

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Anlage / Appendix No.:

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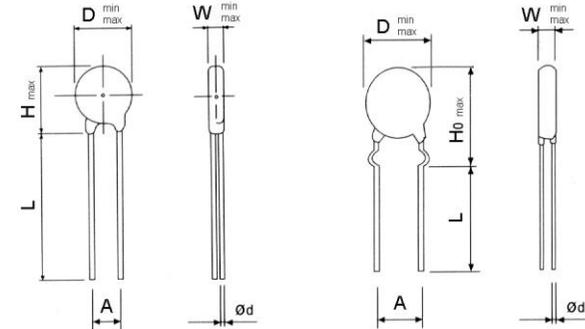
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20K180	18	11	14	1.0	16.2	19.8	20	36	2000	11	35000	20.0	23.0	2.8	4.1	26	28.0	10.0	1.0	1.0	0.1
FNR-20K220	22	14	18	1.0	19.8	24.2	20	43	2000	14	30000	20.0	23.0	3.2	4.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20K270	27	17	22	1.0	24.3	29.7	20	53	2000	18	25000	20.0	23.0	3.2	4.8	26	28.0	10.0	1.0	1.0	0.1
FNR-20K330	33	20	26	1.0	29.7	36.3	20	65	2000	23	20000	20.0	23.0	2.6	5.1	26	28.0	10.0	1.0	1.0	0.1
FNR-20K390	39	25	31	1.0	35.1	42.9	20	77	2000	26	18000	20.0	23.0	2.9	5.3	26	28.0	10.0	1.0	1.0	0.1
FNR-20K470	47	30	38	1.0	42.3	51.7	20	93	2000	33	17000	20.0	23.0	3.5	4.9	26	28.0	10.0	1.0	1.0	0.1
FNR-20K560	56	35	45	1.0	50.4	61.6	20	110	2000	41	15000	20.0	23.0	3.5	5.0	26	28.0	10.0	1.0	1.0	0.1
FNR-20K680	68	40	56	1.0	61.2	74.8	20	135	2000	46	12000	20.0	23.0	3.2	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K820	82	50	65	1.0	73.8	90.2	100	135	6500	48	10000	20.0	23.0	2.6	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K101	100	60	85	1.0	90	110	100	165	6500	51	9000	20.0	23.0	2.8	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K121	120	75	100	1.0	108	132	100	200	6500	55	8000	20.0	23.0	2.8	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K151	150	95	125	1.0	135	165	100	250	6500	70	6500	20.0	23.0	2.6	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K181	180	115	150	1.0	162	198	100	300	6500	84	5000	20.0	23.0	2.9	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K201	200	130	170	1.0	180	220	100	340	6500	95	4500	20.0	23.0	3.0	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K221	220	140	180	1.0	198	242	100	360	6500	100	3500	20.0	23.0	3.0	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K241	240	150	200	1.0	216	264	100	395	6500	108	3000	20.0	23.0	3.3	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20K271	270	175	225	1.0	243	297	100	455	6500	127	2800	20.0	23.0	3.4	5.4	26	28.0	10.0	1.0	1.0	0.1

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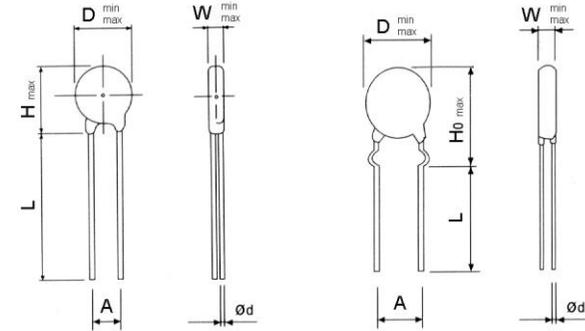
2023-11-06



Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20K301	300	195	250	1.0	270	330	100	500	6500	150	2600	20.0	23.0	3.2	5.5	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20K331	330	210	275	1.0	297	363	100	550	6500	150	2500	20.0	23.0	3.6	5.6	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20K361	360	230	300	1.0	324	396	100	595	6500	163	2300	20.0	24.0	3.4	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K391	390	250	320	1.0	351	429	100	650	6500	180	2000	20.0	24.0	4.2	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K431	430	275	350	1.0	387	473	100	710	6500	190	1800	20.0	24.0	4.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K471	470	300	385	1.0	423	517	100	775	6500	220	1500	20.0	24.0	4.4	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K511	510	320	410	1.0	459	561	100	840	6500	220	1300	20.0	24.0	5.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K561	560	350	455	1.0	504	616	100	925	6500	220	1200	20.0	24.0	5.2	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K621	620	385	505	1.0	558	682	100	1025	6500	220	1100	20.0	24.0	5.5	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K681	680	420	560	1.0	612	748	100	1120	6500	230	1000	20.0	24.0	5.6	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K751	750	460	615	1.0	675	825	100	1240	6500	255	950	20.0	24.0	6.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K781	780	485	640	1.0	702	858	100	1290	6500	265	950	20.0	24.0	6.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K821	820	510	670	1.0	738	902	100	1355	6500	282	900	20.0	24.0	6.1	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K911	910	550	745	1.0	819	1001	100	1500	6500	310	880	20.0	24.0	6.6	9.1	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K102	1000	625	825	1.0	900	1100	100	1650	6500	340	800	20.0	24.0	6.6	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K112	1100	680	895	1.0	990	1210	100	1815	6500	383	700	20.0	24.0	6.8	10.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20K182	1800	1000	1465	1.0	1620	1980	100	2970	6500	620	400	20.0	25.0	7.2	18.0	28.0	30.0	10.0	1.0	1.0	0.1

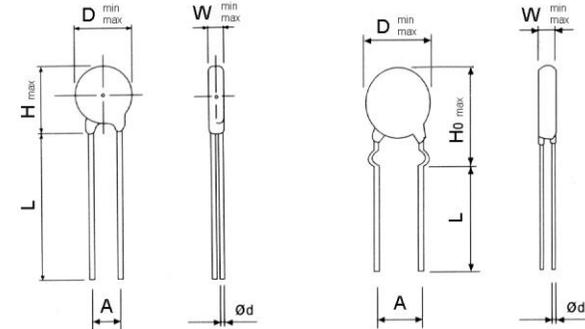
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-07T180K	18	11	14	1.0	16.2	19.8	2.5	36	250	1.3	3500	7.0	9.0	2.0	3.6	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T220K	22	14	18	1.0	19.8	24.2	2.5	43	250	1.5	3000	7.0	9.0	2.3	3.8	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T270K	27	17	22	1.0	24.3	29.7	2.5	53	250	2.0	2800	7.0	9.0	2.4	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T330K	33	20	26	1.0	29.7	36.3	2.5	65	250	2.4	2500	7.0	9.0	2.4	4.4	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T390K	39	25	31	1.0	35.1	42.9	2.5	77	250	2.9	2000	7.0	9.0	2.5	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T470K	47	30	38	1.0	42.3	51.7	2.5	93	250	3.5	1800	7.0	9.0	2.6	4.1	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T560K	56	35	45	1.0	50.4	61.6	2.5	110	250	4.3	1600	7.0	9.0	2.8	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T680K	68	40	56	1.0	61.2	74.8	2.5	135	250	5.0	1550	7.0	9.0	2.9	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T820K	82	50	65	1.0	73.8	90.2	10.0	135	1200	5.5	1200	7.0	9.0	2.3	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T101K	100	60	85	1.0	90	110	10.0	165	1200	6.5	1000	7.0	9.0	2.5	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T121K	120	75	100	1.0	108	132	10.0	200	1200	7.8	900	7.0	9.0	2.5	4.0	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T151K	150	95	125	1.0	135	165	10.0	250	1200	9.7	800	7.0	9.0	2.5	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T181K	180	115	150	1.0	162	198	10.0	300	1200	11.7	700	7.0	9.0	2.3	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T201K	200	130	170	1.0	180	220	10.0	340	1200	14.0	600	7.0	9.0	2.3	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T221K	220	140	180	1.0	198	242	10.0	360	1200	14.0	500	7.0	9.0	2.6	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T241K	240	150	200	1.0	216	264	10.0	395	1200	14.0	400	7.0	9.0	2.5	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07T271K	270	175	225	1.0	243	297	10.0	455	1200	18.0	300	7.0	9.0	2.6	4.1	12.0	14.0	5.0	1.0	0.6	0.1

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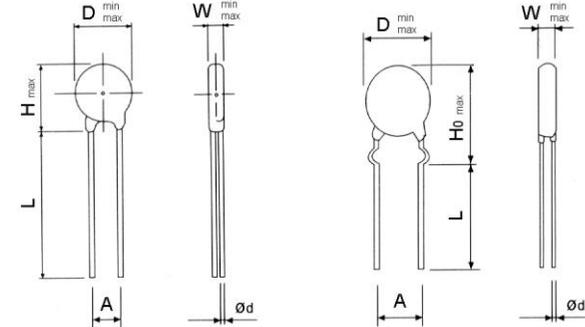
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-10T180K	18	11	14	1.0	16.2	19.8	5	36	500	2.9	7500	10.0	13.5	2.4	4.1	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T220K	22	14	18	1.0	19.8	24.2	5	43	500	3.5	6500	10.0	13.5	2.5	4.2	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T270K	27	17	22	1.0	24.3	29.7	5	53	500	4.2	6000	10.0	13.5	2.6	4.3	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T330K	33	20	26	1.0	29.7	36.3	5	65	500	5.6	5500	10.0	13.5	2.3	5.1	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T390K	39	25	31	1.0	35.1	42.9	5	77	500	6.4	5000	10.0	13.5	2.5	5.3	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T470K	47	30	38	1.0	42.3	51.7	5	93	500	7.7	4500	10.0	13.5	3.1	4.8	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T560K	56	35	45	1.0	50.4	61.6	5	110	500	9.8	4000	10.0	13.5	2.9	4.8	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T680K	68	40	56	1.0	61.2	74.8	5	135	500	11	3000	10.0	13.5	3.0	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T820K	82	50	65	1.0	73.8	90.2	25	135	2500	12	2800	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T101K	100	60	85	1.0	90	110	25	165	2500	15	2400	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T121K	120	75	100	1.0	108	132	25	200	2500	18	2200	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T151K	150	95	125	1.0	135	165	25	250	2500	22	1800	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T181K	180	115	150	1.0	162	198	25	300	2500	27	1500	10.0	13.5	2.8	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T201K	200	130	170	1.0	180	220	25	340	2500	30	1000	10.0	13.5	2.6	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T221K	220	140	180	1.0	198	242	25	360	2500	32	800	10.0	13.5	2.8	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T241K	240	150	200	1.0	216	264	25	395	2500	35	700	10.0	13.5	3.0	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10T271K	270	175	225	1.0	243	297	25	455	2500	40	600	10.0	13.5	2.9	5.4	16.5	18.5	7.5	1.0	0.8	0.1

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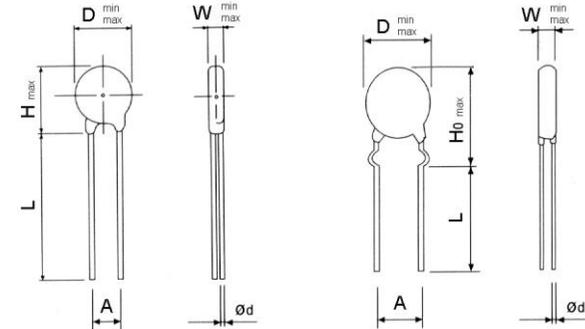
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-10T301K	300	195	250	1.0	270	330	25.0	500	2500	40	550	10.0	13.5	3.0	5.4	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T331K	330	210	275	1.0	297	363	25.0	550	2500	43	550	10.0	13.5	3.3	5.4	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T361K	360	230	300	1.0	324	396	25.0	595	2500	47	500	10.0	13.5	3.2	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T391K	390	250	320	1.0	351	429	25.0	650	2500	60	450	10.0	13.5	3.8	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T431K	430	275	350	1.0	387	473	25.0	710	2500	65	430	10.0	13.5	3.9	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T471K	470	300	385	1.0	423	517	25.0	775	2500	70	400	10.0	13.5	4.0	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T511K	510	320	410	1.0	459	561	25.0	840	2500	70	350	10.0	13.5	4.7	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T561K	560	350	455	1.0	504	616	25.0	925	2500	70	300	10.0	13.5	4.8	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T621K	620	385	505	1.0	558	682	25.0	1025	2500	70	300	10.0	13.5	4.9	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T681K	680	420	560	1.0	612	748	25.0	1120	2500	72	280	10.0	13.5	5.0	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T751K	750	460	615	1.0	675	825	25.0	1240	2500	75	250	10.0	13.5	5.4	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T781K	780	485	640	1.0	702	858	25.0	1290	2500	75	250	10.0	13.5	5.6	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T821K	820	510	670	1.0	738	902	25.0	1355	2500	85	240	10.0	13.5	5.7	8.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T911K	910	550	745	1.0	819	1001	25.0	1500	2500	93	230	10.0	13.5	6.0	9.0	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10T102K	1000	625	825	1.0	900	1100	25.0	1650	2500	102	220	10.0	13.5	6.2	10.5	17.0	19.0	7.5	1.0	0.8	0.1

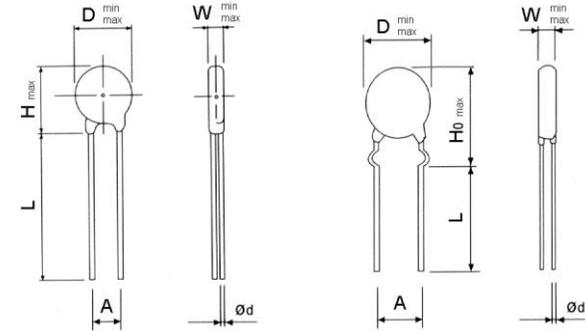
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-14T180K	18	11	14	1.0	16.2	19.8	10	36	1000	5	18000	14.0	17.0	2.4	4.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14T220K	22	14	18	1.0	19.8	24.2	10	43	1000	6	15000	14.0	17.0	2.8	4.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14T270K	27	17	22	1.0	24.3	29.7	10	53	1000	7	13000	14.0	17.0	2.8	4.5	20	23.0	7.5	1.0	0.8	0.1
FNR-14T330K	33	20	26	1.0	29.7	36.3	10	65	1000	8.5	12500	14.0	17.0	2.5	5.1	20	23.0	7.5	1.0	0.8	0.1
FNR-14T390K	39	25	31	1.0	35.1	42.9	10	77	1000	10	11000	14.0	17.0	2.5	5.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14T470K	47	30	38	1.0	42.3	51.7	10	93	1000	12	10000	14.0	17.0	3.2	4.8	20	23.0	7.5	1.0	0.8	0.1
FNR-14T560K	56	35	45	1.0	50.4	61.6	10	110	1000	14	9000	14.0	17.0	2.9	4.8	20	23.0	7.5	1.0	0.8	0.1
FNR-14T680K	68	40	56	1.0	61.2	74.8	10	135	1000	18	8000	14.0	17.0	3.0	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T820K	82	50	65	1.0	73.8	90.2	50	135	4500	22	6500	14.0	17.0	2.5	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T101K	100	60	85	1.0	90	110	50	165	4500	28	5000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T121K	120	75	100	1.0	108	132	50	200	4500	32	4000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T151K	150	95	125	1.0	135	165	50	250	4500	40	3000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T181K	180	115	150	1.0	162	198	50	300	4500	52	2000	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T201K	200	130	170	1.0	180	220	50	340	4500	57	1800	14.0	17.0	2.6	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T221K	220	140	180	1.0	198	242	50	360	4500	63	1600	14.0	17.0	2.8	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T241K	240	150	200	1.0	216	264	50	395	4500	63	1500	14.0	17.0	3.0	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14T271K	270	175	225	1.0	243	297	50	455	4500	70	1200	14.0	17.0	2.9	5.4	20	23.0	7.5	1.0	0.8	0.1

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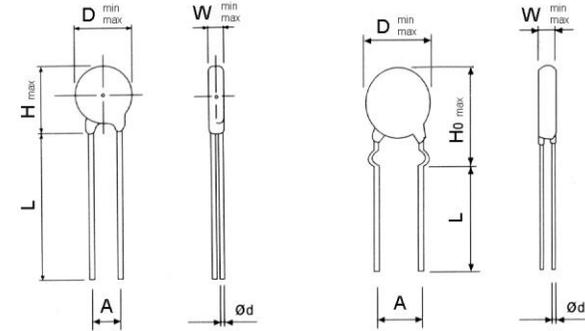
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)	
FNR-14T301K	300	195	250	1.0	270	330	50	500	4500	78	1100	14.0	17.0	3.0	5.4	20.0	23.0	7.5	1.0	0.8	0.1	
FNR-14T331K	330	210	275	1.0	297	363	50	550	4500	85	1000	14.0	17.0	3.3	5.4	20.0	23.0	7.5	1.0	0.8	0.1	
FNR-14T361K	360	230	300	1.0	324	396	50	595	4500	93	900	14.0	17.5	3.3	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T391K	390	250	320	1.0	351	429	50	650	4500	100	850	14.0	17.5	4.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T431K	430	275	350	1.0	387	473	50	710	4500	115	850	14.0	17.5	3.9	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T471K	470	300	385	1.0	423	517	50	775	4500	125	800	14.0	17.5	4.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T511K	510	320	410	1.0	459	561	50	840	4500	125	700	14.0	17.5	4.7	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T561K	560	350	455	1.0	504	616	50	925	4500	125	650	14.0	17.5	4.8	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T621K	620	385	505	1.0	558	682	50	1025	4500	130	580	14.0	17.5	5.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T681K	680	420	560	1.0	612	748	50	1120	4500	136	550	14.0	17.5	5.2	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T751K	750	460	615	1.0	675	825	50	1240	4500	143	500	14.0	17.5	5.5	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T781K	780	485	640	1.0	702	858	50	1290	4500	150	480	14.0	17.5	5.7	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T821K	820	510	670	1.0	738	902	50	1355	4500	157	450	14.0	17.5	5.8	8.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T911K	910	550	745	1.0	819	1001	50	1500	4500	175	400	14.0	17.5	6.2	9.5	20.5	23.5	7.5	1.0	0.8	0.1	
FNR-14T102K	1000	625	825	1.0	900	1100	50	1650	4500	190	380	14.0	17.5	6.4	10.5	20.5	23.5	7.5	1.0	0.8	0.1	

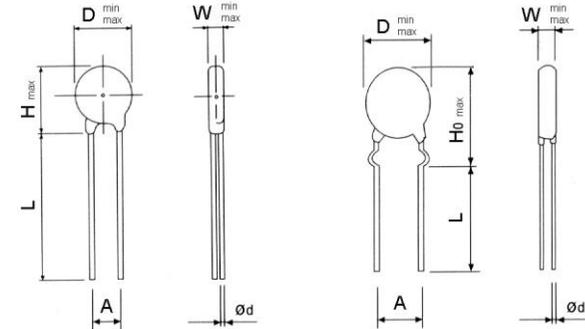
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20T180K	18	11	14	1.0	16.2	19.8	20	36	2000	11	35000	20.0	23.0	2.8	4.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20T220K	22	14	18	1.0	19.8	24.2	20	43	2000	14	30000	20.0	23.0	3.2	4.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20T270K	27	17	22	1.0	24.3	29.7	20	53	2000	18	25000	20.0	23.0	3.2	4.8	26	28.0	10.0	1.0	1.0	0.1
FNR-20T330K	33	20	26	1.0	29.7	36.3	20	65	2000	23	20000	20.0	23.0	2.6	5.1	26	28.0	10.0	1.0	1.0	0.1
FNR-20T390K	39	25	31	1.0	35.1	42.9	20	77	2000	26	18000	20.0	23.0	2.9	5.3	26	28.0	10.0	1.0	1.0	0.1
FNR-20T470K	47	30	38	1.0	42.3	51.7	20	93	2000	33	17000	20.0	23.0	3.5	4.9	26	28.0	10.0	1.0	1.0	0.1
FNR-20T560K	56	35	45	1.0	50.4	61.6	20	110	2000	41	15000	20.0	23.0	3.5	5.0	26	28.0	10.0	1.0	1.0	0.1
FNR-20T680K	68	40	56	1.0	61.2	74.8	20	135	2000	46	12000	20.0	23.0	3.2	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T820K	82	50	65	1.0	73.8	90.2	100	135	6500	48	10000	20.0	23.0	2.6	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T101K	100	60	85	1.0	90	110	100	165	6500	51	9000	20.0	23.0	2.8	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T121K	120	75	100	1.0	108	132	100	200	6500	55	8000	20.0	23.0	2.8	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T151K	150	95	125	1.0	135	165	100	250	6500	70	6500	20.0	23.0	2.6	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T181K	180	115	150	1.0	162	198	100	300	6500	84	5000	20.0	23.0	2.9	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T201K	200	130	170	1.0	180	220	100	340	6500	95	4500	20.0	23.0	3.0	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T221K	220	140	180	1.0	198	242	100	360	6500	100	3500	20.0	23.0	3.0	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T241K	240	150	200	1.0	216	264	100	395	6500	108	3000	20.0	23.0	3.3	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20T271K	270	175	225	1.0	243	297	100	455	6500	127	2800	20.0	23.0	3.4	5.4	26	28.0	10.0	1.0	1.0	0.1

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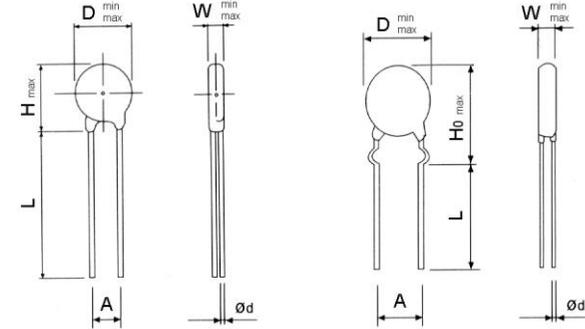
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20T301K	300	195	250	1.0	270	330	100	500	6500	150	2600	20.0	23.0	3.2	5.5	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20T331K	330	210	275	1.0	297	363	100	550	6500	150	2500	20.0	23.0	3.6	5.6	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20T361K	360	230	300	1.0	324	396	100	595	6500	163	2300	20.0	24.0	3.4	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T391K	390	250	320	1.0	351	429	100	650	6500	180	2000	20.0	24.0	4.2	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T431K	430	275	350	1.0	387	473	100	710	6500	190	1800	20.0	24.0	4.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T471K	470	300	385	1.0	423	517	100	775	6500	220	1500	20.0	24.0	4.4	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T511K	510	320	410	1.0	459	561	100	840	6500	220	1300	20.0	24.0	5.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T561K	560	350	455	1.0	504	616	100	925	6500	220	1200	20.0	24.0	5.2	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T621K	620	385	505	1.0	558	682	100	1025	6500	220	1100	20.0	24.0	5.5	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T681K	680	420	560	1.0	612	748	100	1120	6500	230	1000	20.0	24.0	5.6	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T751K	750	460	615	1.0	675	825	100	1240	6500	255	950	20.0	24.0	6.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T781K	780	485	640	1.0	702	858	100	1290	6500	265	950	20.0	24.0	6.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T821K	820	510	670	1.0	738	902	100	1355	6500	282	900	20.0	24.0	6.1	12.2	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T911K	910	550	745	1.0	819	1001	100	1500	6500	310	880	20.0	24.0	6.6	12.5	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T102K	1000	625	825	1.0	900	1100	100	1650	6500	340	800	20.0	24.0	6.6	12.8	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20T112K	1100	680	895	1.0	990	1210	100	1815	6500	383	300	20.0	24.0	6.8	10.0	28.0	30.0	10.0	1.0	1.0	0.1

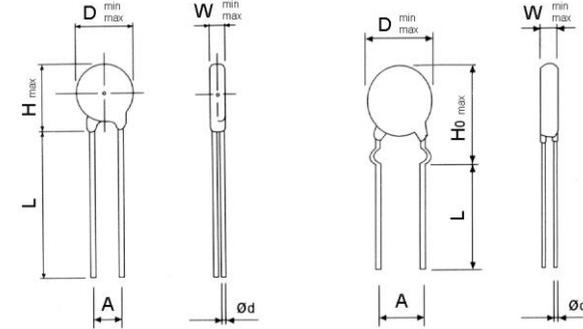
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-07H180K	18	11	14	1.0	16.2	19.8	2.5	36	250	1.3	3500	7.0	9.0	2	3.6	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H220K	22	14	18	1.0	19.8	24.2	2.5	43	250	1.5	3000	7.0	9.0	2.1	3.8	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H270K	27	17	22	1.0	24.3	29.7	2.5	53	250	2.0	2800	7.0	9.0	2.2	4	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H330K	33	20	26	1.0	29.7	36.3	2.5	65	250	2.4	2500	7.0	9.0	2.3	4.4	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H390K	39	25	31	1.0	35.1	42.9	2.5	77	250	2.9	2000	7.0	9.0	2.4	4.5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H470K	47	30	38	1.0	42.3	51.7	2.5	93	250	3.5	1800	7.0	9.0	2.5	4.1	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H560K	56	35	45	1.0	50.4	61.6	2.5	110	250	4.3	1600	7.0	9.0	2.6	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H680K	68	40	56	1.0	61.2	74.8	2.5	135	250	5.0	1550	7.0	9.0	2	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H820K	82	50	65	1.0	73.8	90.2	10.0	135	1200	5.5	1200	7.0	9.0	2.3	4.2	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H101K	100	60	85	1.0	90	110	10.0	165	1200	6.5	1000	7.0	9.0	2.2	4.3	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H121K	120	75	100	1.0	108	132	10.0	200	1200	7.8	900	7.0	9.0	2.3	4.4	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H151K	150	95	125	1.0	135	165	10.0	250	1200	9.7	800	7.0	9.0	2	4.7	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H181K	180	115	150	1.0	162	198	10.0	300	1200	11.7	700	7.0	9.0	2.1	4.8	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H201K	200	130	170	1.0	180	220	10.0	340	1200	14.0	600	7.0	9.0	2.2	4.9	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H221K	220	140	180	1.0	198	242	10.0	360	1200	14.0	500	7.0	9.0	2.3	5	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H241K	240	150	200	1.0	216	264	10.0	395	1200	14.0	400	7.0	9.0	2.4	5.1	12.0	14.0	5.0	1.0	0.6	0.1
FNR-07H271K	270	175	225	1.0	243	297	10.0	455	1200	18.0	300	7.0	9.0	2.5	5.2	12.0	14.0	5.0	1.0	0.6	0.1

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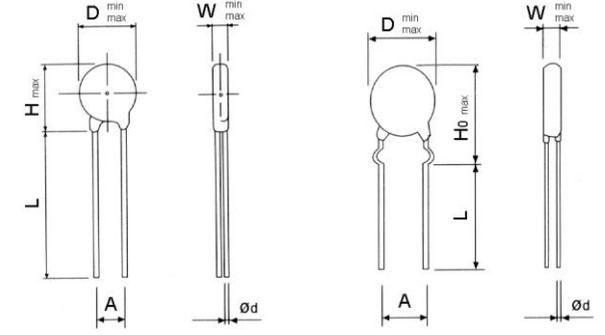
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-10H180K	18	11	14	1.0	16.2	19.8	5	36	500	2.9	7500	10.0	13.5	2.2	4.1	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H220K	22	14	18	1.0	19.8	24.2	5	43	500	3.5	6500	10.0	13.5	2.3	4.2	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H270K	27	17	22	1.0	24.3	29.7	5	53	500	4.2	6000	10.0	13.5	2.4	4.3	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H330K	33	20	26	1.0	29.7	36.3	5	65	500	5.6	5500	10.0	13.5	2.3	4.8	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H390K	39	25	31	1.0	35.1	42.9	5	77	500	6.4	5000	10.0	13.5	2.5	4.9	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H470K	47	30	38	1.0	42.3	51.7	5	93	500	7.7	4500	10.0	13.5	2.6	5.0	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H560K	56	35	45	1.0	50.4	61.6	5	110	500	9.8	4000	10.0	13.5	2.9	5.1	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H680K	68	40	56	1.0	61.2	74.8	5	135	500	11	3000	10.0	13.5	3	5.2	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H820K	82	50	65	1.0	73.8	90.2	25	135	2500	12	2800	10.0	13.5	2.5	5.2	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H101K	100	60	85	1.0	90	110	25	165	2500	15	2400	10.0	13.5	2.5	5.3	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H121K	120	75	100	1.0	108	132	25	200	2500	18	2200	10.0	13.5	2.5	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H151K	150	95	125	1.0	135	165	25	250	2500	22	1800	10.0	13.5	2.4	5.4	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H181K	180	115	150	1.0	162	198	25	300	2500	27	1500	10.0	13.5	2.5	4.8	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H201K	200	130	170	1.0	180	220	25	340	2500	30	1000	10.0	13.5	2.6	4.9	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H221K	220	140	180	1.0	198	242	25	360	2500	32	800	10.0	13.5	2.7	5	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H241K	240	150	200	1.0	216	264	25	395	2500	35	700	10.0	13.5	2.8	5.2	16.5	18.5	7.5	1.0	0.8	0.1
FNR-10H271K	270	175	225	1.0	243	297	25	455	2500	40	600	10.0	13.5	2.9	5.4	16.5	18.5	7.5	1.0	0.8	0.1

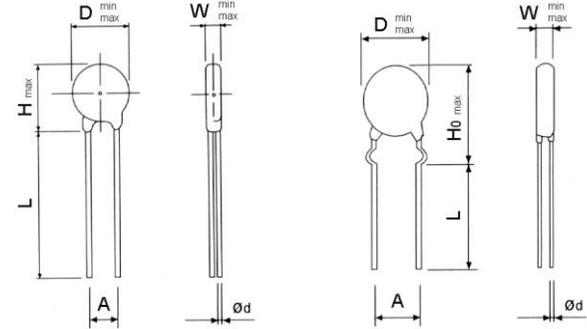
Raum für Vermerke des VDE-Instituts Space reserved for notes of the VDE- Institute	Genehmigungsausweis Nr.: / Marks Approval No.: 40008242	Aktenzeichen / File reference: 5002665-4790-0001/305180	Anlage / Appendix No.: 200K19	Datum / Date: 2023-11-06
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-10H301K	300	195	250	1.0	270	330	25.0	500	2500	40	550	10.0	13.5	3	5.6	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H331K	330	210	275	1.0	297	363	25.0	550	2500	43	550	10.0	13.5	3.1	5.8	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H361K	360	230	300	1.0	324	396	25.0	595	2500	47	500	10.0	13.5	3.2	6	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H391K	390	250	320	1.0	351	429	25.0	650	2500	60	450	10.0	13.5	3.3	6.2	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H431K	430	275	350	1.0	387	473	25.0	710	2500	65	430	10.0	13.5	3.4	6.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H471K	470	300	385	1.0	423	517	25.0	775	2500	70	400	10.0	13.5	3.6	6.8	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H511K	510	320	410	1.0	459	561	25.0	840	2500	70	350	10.0	13.5	3.7	7.1	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H561K	560	350	455	1.0	504	616	25.0	925	2500	70	300	10.0	13.5	3.8	7.4	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H621K	620	385	505	1.0	558	682	25.0	1025	2500	70	300	10.0	13.5	3.9	7.7	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H681K	680	420	560	1.0	612	748	25.0	1120	2500	72	280	10.0	13.5	4	8	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H751K	750	460	615	1.0	675	825	25.0	1240	2500	75	250	10.0	13.5	4.1	8.3	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H781K	780	485	640	1.0	702	858	25.0	1290	2500	75	250	10.0	13.5	4.2	8.6	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H821K	820	510	670	1.0	738	902	25.0	1355	2500	85	240	10.0	13.5	4.3	8.9	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H911K	910	550	745	1.0	819	1001	25.0	1500	2500	93	230	10.0	13.5	4.4	9.2	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H102K	1000	625	825	1.0	900	1100	25.0	1650	2500	102	220	10.0	13.5	4.5	9.5	17.0	19.0	7.5	1.0	0.8	0.1
FNR-10H112K	1100	680	895	1.0	990	1210	25.0	1815	2500	115	200	10.0	13.5	4.6	9.8	17.0	19.0	7.5	1.0	0.8	0.1

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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung
 Supply voltage

Max. Dauerspannung
 Max. continuous voltage

Bezugsstrom
 Reference current

Spannung bei Bezugsstrom
 Voltage at reference current

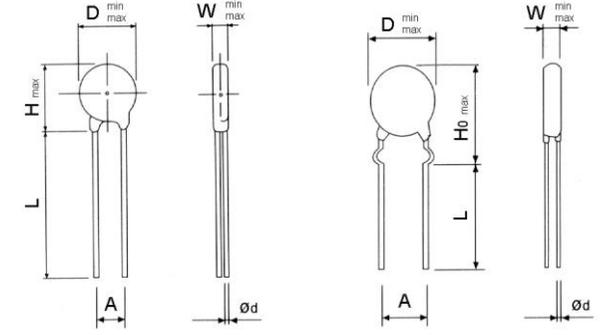
Spannung bei Stromklasse (8/20µs)
 Voltage at class current (8/20µs)

Max. Spitzenstrom (8/20µs 1 mal)
 Max. peak current (8/20µs 1 time)

Quellenenergiewert (10/1000)
 Energy surge rating (10/1000)

Max. Kapazität
 Max. capacitance

Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-14H180K	18	11	14	1.0	16.2	19.8	10	36	1000	5	18000	14.0	17.0	2.2	4.2	20	23.0	7.5	1.0	0.8	0.1
FNR-14H220K	22	14	18	1.0	19.8	24.2	10	43	1000	6	15000	14.0	17.0	2.3	4.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14H270K	27	17	22	1.0	24.3	29.7	10	53	1000	7	13000	14.0	17.0	2.4	4.5	20	23.0	7.5	1.0	0.8	0.1
FNR-14H330K	33	20	26	1.0	29.7	36.3	10	65	1000	8.5	12500	14.0	17.0	2.3	4.8	20	23.0	7.5	1.0	0.8	0.1
FNR-14H390K	39	25	31	1.0	35.1	42.9	10	77	1000	10	11000	14.0	17.0	2.5	4.9	20	23.0	7.5	1.0	0.8	0.1
FNR-14H470K	47	30	38	1.0	42.3	51.7	10	93	1000	12	10000	14.0	17.0	2.6	5.0	20	23.0	7.5	1.0	0.8	0.1
FNR-14H560K	56	35	45	1.0	50.4	61.6	10	110	1000	14	9000	14.0	17.0	2.9	5.1	20	23.0	7.5	1.0	0.8	0.1
FNR-14H680K	68	40	56	1.0	61.2	74.8	10	135	1000	18	8000	14.0	17.0	3	5.2	20	23.0	7.5	1.0	0.8	0.1
FNR-14H820K	82	50	65	1.0	73.8	90.2	50	135	4500	22	6500	14.0	17.0	2.5	5.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14H101K	100	60	85	1.0	90	110	50	165	4500	28	5000	14.0	17.0	2.5	5.3	20	23.0	7.5	1.0	0.8	0.1
FNR-14H121K	120	75	100	1.0	108	132	50	200	4500	32	4000	14.0	17.0	2.5	5.4	20	23.0	7.5	1.0	0.8	0.1
FNR-14H151K	150	95	125	1.0	135	165	50	250	4500	40	3000	14.0	17.0	2.4	5.5	20	23.0	7.5	1.0	0.8	0.1
FNR-14H181K	180	115	150	1.0	162	198	50	300	4500	52	2000	14.0	17.0	2.5	5.6	20	23.0	7.5	1.0	0.8	0.1
FNR-14H201K	200	130	170	1.0	180	220	50	340	4500	57	1800	14.0	17.0	2.6	5.6	20	23.0	7.5	1.0	0.8	0.1
FNR-14H221K	220	140	180	1.0	198	242	50	360	4500	63	1600	14.0	17.0	2.7	5.7	20	23.0	7.5	1.0	0.8	0.1
FNR-14H241K	240	150	200	1.0	216	264	50	395	4500	63	1500	14.0	17.0	2.8	5.7	20	23.0	7.5	1.0	0.8	0.1
FNR-14H271K	270	175	225	1.0	243	297	50	455	4500	70	1200	14.0	17.0	2.9	5.8	20	23.0	7.5	1.0	0.8	0.1

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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung
 Supply voltage

Max. Dauerspannung
 Max. continuous voltage

Bezugsstrom
 Reference current

Spannung bei Bezugsstrom
 Voltage at reference current

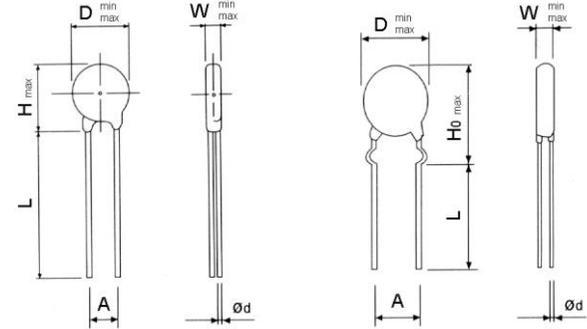
Spannung bei Stromklasse (8/20µs)
 Voltage at class current (8/20µs)

Max. Spitzenstrom (8/20µs 1 mal)
 Max. peak current (8/20µs 1 time)

Quellenenergiewert (10/1000)
 Energy surge rating (10/1000)

Max. Kapazität
 Max. capacitance

Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-14H301K	300	195	250	1.0	270	330	50	500	4500	78	1100	14.0	17.0	3	5.8	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14H331K	330	210	275	1.0	297	363	50	550	4500	85	1000	14.0	17.0	3.1	5.9	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14H361K	360	230	300	1.0	324	396	50	595	4500	93	900	14.0	17.5	3.2	6	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H391K	390	250	320	1.0	351	429	50	650	4500	100	850	14.0	17.5	3.3	6.2	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H431K	430	275	350	1.0	387	473	50	710	4500	115	850	14.0	17.5	3.4	6.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H471K	470	300	385	1.0	423	517	50	775	4500	125	800	14.0	17.5	3.6	6.8	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H511K	510	320	410	1.0	459	561	50	840	4500	125	700	14.0	17.5	3.7	7.1	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H561K	560	350	455	1.0	504	616	50	925	4500	125	650	14.0	17.5	3.8	7.4	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H621K	620	385	505	1.0	558	682	50	1025	4500	130	580	14.0	17.5	3.9	7.7	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H681K	680	420	560	1.0	612	748	50	1120	4500	136	550	14.0	17.5	4	8	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H751K	750	460	615	1.0	675	825	50	1240	4500	143	500	14.0	17.5	4.1	8.3	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H781K	780	485	640	1.0	702	858	50	1290	4500	150	480	14.0	17.5	4.2	8.6	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H821K	820	510	670	1.0	738	902	50	1355	4500	157	450	14.0	17.5	4.3	8.9	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H911K	910	550	745	1.0	819	1001	50	1500	4500	175	400	14.0	17.5	4.4	9.2	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H102K	1000	625	825	1.0	900	1100	50	1650	4500	190	380	14.0	17.5	4.5	9.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14H112K	1100	680	895	1.0	990	1210	50	1815	4500	213	350	14.0	17.5	4.6	9.8	20.5	23.5	7.5	1.0	0.8	0.1

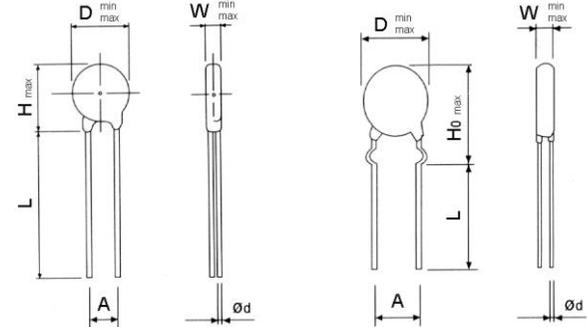
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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20H180K	18	11	14	1.0	16.2	19.8	20	36	2000	11	35000	20.0	23.0	2.4	4.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20H220K	22	14	18	1.0	19.8	24.2	20	43	2000	14	30000	20.0	23.0	2.8	4.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20H270K	27	17	22	1.0	24.3	29.7	20	53	2000	18	25000	20.0	23.0	2.8	4.8	26	28.0	10.0	1.0	1.0	0.1
FNR-20H330K	33	20	26	1.0	29.7	36.3	20	65	2000	23	20000	20.0	23.0	2.6	4.9	26	28.0	10.0	1.0	1.0	0.1
FNR-20H390K	39	25	31	1.0	35.1	42.9	20	77	2000	26	18000	20.0	23.0	2.8	5.0	26	28.0	10.0	1.0	1.0	0.1
FNR-20H470K	47	30	38	1.0	42.3	51.7	20	93	2000	33	17000	20.0	23.0	3	5.1	26	28.0	10.0	1.0	1.0	0.1
FNR-20H560K	56	35	45	1.0	50.4	61.6	20	110	2000	41	15000	20.0	23.0	3.2	5.2	26	28.0	10.0	1.0	1.0	0.1
FNR-20H680K	68	40	56	1.0	61.2	74.8	20	135	2000	46	12000	20.0	23.0	3.2	5.2	26	28.0	10.0	1.0	1.0	0.1
FNR-20H820K	82	50	65	1.0	73.8	90.2	100	135	6500	48	10000	20.0	23.0	2.6	5.3	26	28.0	10.0	1.0	1.0	0.1
FNR-20H101K	100	60	85	1.0	90	110	100	165	6500	51	9000	20.0	23.0	2.8	5.3	26	28.0	10.0	1.0	1.0	0.1
FNR-20H121K	120	75	100	1.0	108	132	100	200	6500	55	8000	20.0	23.0	2.8	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20H151K	150	95	125	1.0	135	165	100	250	6500	70	6500	20.0	23.0	2.5	5.5	26	28.0	10.0	1.0	1.0	0.1
FNR-20H181K	180	115	150	1.0	162	198	100	300	6500	84	5000	20.0	23.0	2.6	5.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20H201K	200	130	170	1.0	180	220	100	340	6500	95	4500	20.0	23.0	2.7	5.6	26	28.0	10.0	1.0	1.0	0.1
FNR-20H221K	220	140	180	1.0	198	242	100	360	6500	100	3500	20.0	23.0	2.8	5.7	26	28.0	10.0	1.0	1.0	0.1
FNR-20H241K	240	150	200	1.0	216	264	100	395	6500	108	3000	20.0	23.0	2.9	5.7	26	28.0	10.0	1.0	1.0	0.1
FNR-20H271K	270	175	225	1.0	243	297	100	455	6500	127	2800	20.0	23.0	3	5.8	26	28.0	10.0	1.0	1.0	0.1

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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung
 Supply voltage

Max. Dauerspannung
 Max. continuous voltage

Bezugsstrom
 Reference current

Spannung bei Bezugsstrom
 Voltage at reference current

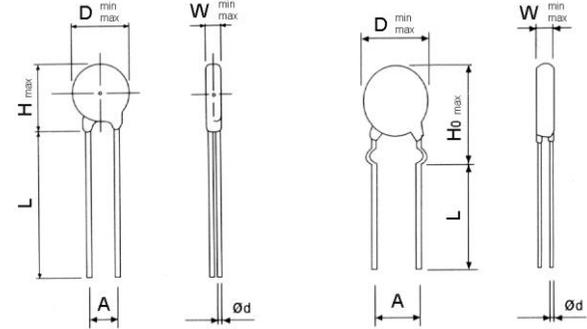
Spannung bei Stromklasse (8/20µs)
 Voltage at class current (8/20µs)

Max. Spitzenstrom (8/20µs 1 mal)
 Max. peak current (8/20µs 1 time)

Quellenenergiewert (10/1000)
 Energy surge rating (10/1000)

Max. Kapazität
 Max. capacitance

Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20H301K	300	195	250	1.0	270	330	100	500	6500	150	2600	20.0	23.0	3.1	5.9	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20H331K	330	210	275	1.0	297	363	100	550	6500	150	2500	20.0	23.0	3.2	6	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20H361K	360	230	300	1.0	324	396	100	595	6500	163	2300	20.0	24.0	3.3	6.1	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H391K	390	250	320	1.0	351	429	100	650	6500	180	2000	20.0	24.0	3.5	6.3	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H431K	430	275	350	1.0	387	473	100	710	6500	190	1800	20.0	24.0	3.8	6.5	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H471K	470	300	385	1.0	423	517	100	775	6500	220	1500	20.0	24.0	4	7	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H511K	510	320	410	1.0	459	561	100	840	6500	220	1300	20.0	24.0	4.2	7.3	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H561K	560	350	455	1.0	504	616	100	925	6500	220	1200	20.0	24.0	4.3	7.7	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H621K	620	385	505	1.0	558	682	100	1025	6500	220	1100	20.0	24.0	4.4	8	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H681K	680	420	560	1.0	612	748	100	1120	6500	230	1000	20.0	24.0	4.5	8.3	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H751K	750	460	615	1.0	675	825	100	1240	6500	255	950	20.0	24.0	4.6	8.6	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H781K	780	485	640	1.0	702	858	100	1290	6500	265	950	20.0	24.0	4.7	8.9	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H821K	820	510	670	1.0	738	902	100	1355	6500	282	900	20.0	24.0	4.8	9.2	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H911K	910	550	745	1.0	819	1001	100	1500	6500	310	880	20.0	24.0	4.9	9.5	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H102K	1000	625	825	1.0	900	1100	100	1650	6500	340	800	20.0	24.0	5.0	9.8	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20H112K	1100	680	895	1.0	990	1210	100	1815	6500	383	700	20.0	24.0	5.2	10.5	28.0	30.0	10.0	1.0	1.0	0.1

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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
*Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]*

Nennbetriebsspannung
Supply voltage

Max. Dauerspannung
Max. continuous voltage

Bezugsstrom
Reference current

Spannung bei Bezugsstrom
Voltage at reference current

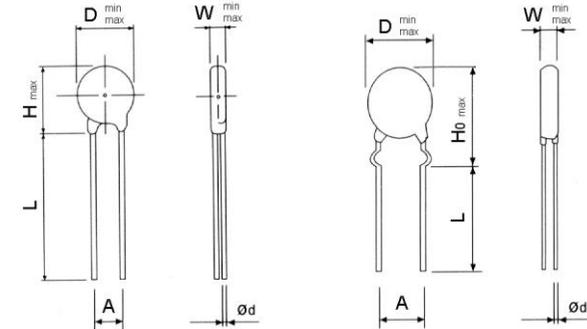
Spannung bei Stromklasse (8/20µs)
Voltage at class current (8/20µs)

Max. Spitzenstrom (8/20µs 1 mal)
Max. peak current (8/20µs 1 time)

Quellenenergiewert (10/1000)
Energy surge rating (10/1000)

Max. Kapazität
Max. capacitance

Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung <i>Type designation</i>	Nennbetriebsspannung <i>Supply voltage</i>			Max. Dauerspannung <i>Max. continuous voltage</i>		Bezugsstrom <i>Reference current</i>		Spannung bei Bezugsstrom <i>Voltage at reference current</i>		Spannung bei Stromklasse (8/20µs) <i>Voltage at class current (8/20µs)</i>		Max. Spitzenstrom (8/20µs 1 mal) <i>Max. peak current (8/20µs 1 time)</i>		Quellenenergiewert (10/1000) <i>Energy surge rating (10/1000)</i>		Max. Kapazität <i>Max. capacitance</i>		Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]				
	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)	
FNR-10C271K	270	175	225	1.0	243	297	25.0	455	2500	40	580	10.0	13.5	2.9	5.4	16.5	18.5	7.5	1.0	0.8	0.1	
FNR-10C301K	300	195	250	1.0	270	330	25.0	500	2500	40	520	10.0	13.5	3.0	5.4	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C331K	330	210	275	1.0	297	363	25.0	550	2500	43	480	10.0	13.5	3.3	5.4	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C361K	360	230	300	1.0	324	396	25.0	595	2500	47	460	10.0	13.5	3.2	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C391K	390	250	320	1.0	351	429	25.0	650	2500	60	430	10.0	13.5	3.8	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C431K	430	275	350	1.0	387	473	25.0	710	2500	65	390	10.0	13.5	3.9	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C471K	470	300	385	1.0	423	517	25.0	775	2500	70	370	10.0	13.5	4.0	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C511K	510	320	410	1.0	459	561	25.0	840	2500	70	350	10.0	13.5	4.7	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C561K	560	350	455	1.0	504	616	25.0	925	2500	70	330	10.0	13.5	4.8	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C621K	620	385	505	1.0	558	682	25.0	1025	2500	70	300	10.0	13.5	4.9	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C681K	680	420	560	1.0	612	748	25.0	1120	2500	72	290	10.0	13.5	5.0	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C751K	750	460	615	1.0	675	825	25.0	1240	2500	75	260	10.0	13.5	5.4	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C781K	780	485	640	1.0	702	858	25.0	1290	2500	75	255	10.0	13.5	5.6	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C821K	820	510	670	1.0	738	902	25.0	1355	2500	85	250	10.0	13.5	5.7	8.5	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C911K	910	550	745	1.0	819	1001	25.0	1500	2500	93	240	10.0	13.5	6.0	8.7	17.0	19.0	7.5	1.0	0.8	0.1	
FNR-10C102K	1000	625	825	1.0	900	1100	25.0	1650	2500	102	230	10.0	13.5	6.2	8.7	17.0	19.0	7.5	1.0	0.8	0.1	

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Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung
 Supply voltage

Max. Dauerspannung
 Max. continuous voltage

Bezugsstrom
 Reference current

Spannung bei Bezugsstrom
 Voltage at reference current

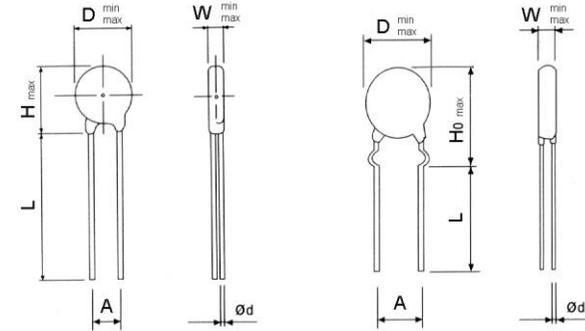
Spannung bei Stromklasse (8/20µs)
 Voltage at class current (8/20µs)

Max. Spitzenstrom (8/20µs 1 mal)
 Max. peak current (8/20µs 1 time)

Quellenenergiewert (10/1000)
 Energy surge rating (10/1000)

Max. Kapazität
 Max. capacitance

Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-14C271K	270	175	225	1.0	243	297	50	455	4500	70	970	14.0	17.0	2.9	5.4	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14C301K	300	195	250	1.0	270	330	50	500	4500	78	880	14.0	17.0	3.0	5.4	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14C331K	330	210	275	1.0	297	363	50	550	4500	85	800	14.0	17.0	3.3	5.4	20.0	23.0	7.5	1.0	0.8	0.1
FNR-14C361K	360	230	300	1.0	324	396	50	595	4500	93	730	14.0	17.5	3.3	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C391K	390	250	320	1.0	351	429	50	650	4500	100	670	14.0	17.5	4.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C431K	430	275	350	1.0	387	473	50	710	4500	115	600	14.0	17.5	3.9	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C471K	470	300	385	1.0	423	517	50	775	4500	125	560	14.0	17.5	4.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C511K	510	320	410	1.0	459	561	50	840	4500	125	510	14.0	17.5	4.7	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C561K	560	350	455	1.0	504	616	50	925	4500	125	470	14.0	17.5	4.8	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C621K	620	385	505	1.0	558	682	50	1025	4500	130	420	14.0	17.5	5.0	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C681K	680	420	560	1.0	612	748	50	1120	4500	136	380	14.0	17.5	5.2	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C751K	750	460	615	1.0	675	825	50	1240	4500	143	360	14.0	17.5	5.5	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C781K	780	485	640	1.0	702	858	50	1290	4500	150	340	14.0	17.5	5.7	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C821K	820	510	670	1.0	738	902	50	1355	4500	157	320	14.0	17.5	5.8	8.5	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C911K	910	550	745	1.0	819	1001	50	1500	4500	175	300	14.0	17.5	6.2	8.9	20.5	23.5	7.5	1.0	0.8	0.1
FNR-14C102K	1000	625	825	1.0	900	1100	50	1650	4500	190	280	14.0	17.5	6.4	8.9	20.5	23.5	7.5	1.0	0.8	0.1

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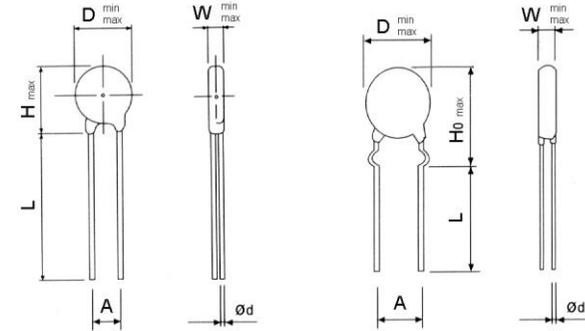
2023-11-06



Überspannungsschutz Varistoren
 [Betriebsdaten und
 Eigenschaften bei 25°C]
 Surge Suppression Varistors
 [Ratings and characteristics
 at 25°C]

Nennbetriebsspannung Supply voltage	Max. Dauerspannung Max. continuous voltage	Bezugsstrom Reference current	Spannung bei Bezugsstrom Voltage at reference current	Spannung bei Stromklasse (8/20µs) Voltage at class current (8/20µs)	Max. Spitzenstrom (8/20µs 1 mal) Max. peak current (8/20µs 1 time)	Quellenenergiewert (10/1000) Energy surge rating (10/1000)	Max. Kapazität Max. capacitance
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Abmessungen des "Endproduktes" / Dimensions of the "final product" [IEC 61051-2-2]



Typbezeichnung Type designation	(v)	r.m.s (v)	d.c. (v)	(mA)	min. (v)	max. (v)	class current (A)	max. voltage (v)	(A)	(J)	(pF)	D _{min.} (mm)	D _{max.} (mm)	W _{min.} (mm)	W _{max.} (mm)	H _{max.} (mm)	H _{0 max.} (mm)	A (mm)	Tolerance of A (mm)	d (mm)	Tolerance of d (mm)
FNR-20C271K	270	175	225	1.0	243	297	100	455	6500	127	2160	20.0	23.0	3.4	5.4	26	28.0	10.0	1.0	1.0	0.1
FNR-20C301K	300	195	250	1.0	270	330	100	500	6500	150	1890	20.0	23.0	3.2	5.5	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20C331K	330	210	275	1.0	297	363	100	550	6500	150	1890	20.0	23.0	3.6	5.6	26.0	28.0	10.0	1.0	1.0	0.1
FNR-20C361K	360	230	300	1.0	324	396	100	595	6500	163	1620	20.0	24.0	3.4	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C391K	390	250	320	1.0	351	429	100	650	6500	180	1350	20.0	24.0	4.2	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C431K	430	275	350	1.0	387	473	100	710	6500	190	1215	20.0	24.0	4.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C471K	470	300	385	1.0	423	517	100	775	6500	220	1215	20.0	24.0	4.4	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C511K	510	320	410	1.0	459	561	100	840	6500	220	1080	20.0	24.0	5.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C561K	560	350	455	1.0	504	616	100	925	6500	220	945	20.0	24.0	5.2	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C621K	620	385	505	1.0	558	682	100	1025	6500	220	675	20.0	24.0	5.5	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C681K	680	420	560	1.0	612	748	100	1120	6500	230	621	20.0	24.0	5.6	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C751K	750	460	615	1.0	675	825	100	1240	6500	255	567	20.0	24.0	6.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C781K	780	485	640	1.0	702	858	100	1290	6500	265	567	20.0	24.0	6.0	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C821K	820	510	670	1.0	738	902	100	1355	6500	282	567	20.0	24.0	6.1	9.0	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C911K	910	550	745	1.0	819	1001	100	1500	6500	310	473	20.0	24.0	6.6	9.1	28.0	30.0	10.0	1.0	1.0	0.1
FNR-20C102K	1000	625	825	1.0	900	1100	100	1650	6500	340	432	20.0	24.0	6.6	9.1	28.0	30.0	10.0	1.0	1.0	0.1

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