



Certificate of Compliance

Certificate: 2161766

Master Contract: 246579

Project: 80131919

Date Issued: July 13, 2022

Issued To: **BestBright Electronics Co., Ltd.**
#3 Building Modern Enterprise
Accelerator Park, Song Shan Lake
High-Tech Ind. development Zone
Dongguan, Guangdong, 523808
China

Attention: Wu Tom

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲



Norman Luo

Issued by: Norman Luo

PRODUCTS

CLASS - C221331 - SURGE PROTECTIVE DEVICES Components and Subassemblies

Type 5 – Component Surge Protective Devices (SPD), Varistors Type D, S, R and H Series:

5mm series - 5D series (ordering code 5D) series:				
Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KD05	Ld-Ld	11	18	0.05
220KD05	Ld-Ld	14	22	0.05
270KD05	Ld-Ld	17	27	0.05
330KD05	Ld-Ld	20	33	0.1
390KD05	Ld-Ld	25	39	0.1
470KD05	Ld-Ld	30	47	0.1



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560KD05	Ld-Ld	35	56	0.1
680KD05	Ld-Ld	40	68	0.1
820KD05	Ld-Ld	50	82	0.1
101KD05	Ld-Ld	60	100	0.1
121KD05	Ld-Ld	75	120	0.1
151KD05	Ld-Ld	95	150	0.1
181KD05	Ld-Ld	115	180	0.1
201KD05	Ld-Ld	130	200	0.25
221KD05	Ld-Ld	140	220	0.25
241KD05	Ld-Ld	150	240	0.25
271KD05	Ld-Ld	175	270	0.25
301KD05	Ld-Ld	190	300	0.25
331KD05	Ld-Ld	210	330	0.25
361KD05	Ld-Ld	230	360	0.25
391KD05	Ld-Ld	250	390	0.25
431KD05	Ld-Ld	275	430	0.25
471KD05	Ld-Ld	300	470	0.25
511KD05	Ld-Ld	320	510	0.25
561KD05	Ld-Ld	350	560	0.25
621KD05	Ld-Ld	385	620	0.25
681KD05	Ld-Ld	420	680	0.25
751KD05	Ld-Ld	460	750	0.25
781KD05	Ld-Ld	485	780	0.25
821KD05	Ld-Ld	510	820	0.25
911KD05	Ld-Ld	550	910	0.25

7mm series - 7D series (ordering code 7D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KD07	Ld-Ld	11	18	0.1
220KD07	Ld-Ld	14	22	0.1
270KD07	Ld-Ld	17	27	0.1
330KD07	Ld-Ld	20	33	0.1
390KD07	Ld-Ld	25	39	0.1
470KD07	Ld-Ld	30	47	0.1
560KD07	Ld-Ld	35	56	0.1
680KD07	Ld-Ld	40	68	0.1
820KD07	Ld-Ld	50	82	0.25
101KD07	Ld-Ld	60	100	0.25
121KD07	Ld-Ld	75	120	0.25
151KD07	Ld-Ld	95	150	0.25



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181KD07	Ld-Ld	115	180	0.25
201KD07	Ld-Ld	130	200	0.5
221KD07	Ld-Ld	140	220	0.5
241KD07	Ld-Ld	150	240	0.5
271KD07	Ld-Ld	175	270	0.5
301KD07	Ld-Ld	190	300	0.5
331KD07	Ld-Ld	210	330	0.5
361KD07	Ld-Ld	230	360	0.5
391KD07	Ld-Ld	250	390	0.5
431KD07	Ld-Ld	275	430	0.5
471KD07	Ld-Ld	300	470	0.5
511KD07	Ld-Ld	320	510	0.5
561KD07	Ld-Ld	350	560	0.5
621KD07	Ld-Ld	385	620	0.5
681KD07	Ld-Ld	420	680	0.5
751KD07	Ld-Ld	460	750	0.5
781KD07	Ld-Ld	485	780	0.5
821KD07	Ld-Ld	510	820	0.5
911KD07	Ld-Ld	550	910	0.5

10mm series - 10D series (ordering code 10D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KD10	Ld-Ld	11	18	0.25
220KD10	Ld-Ld	14	22	0.25
270KD10	Ld-Ld	17	27	0.25
330KD10	Ld-Ld	20	33	0.25
390KD10	Ld-Ld	25	39	0.25
470KD10	Ld-Ld	30	47	0.25
560KD10	Ld-Ld	35	56	0.25
680KD10	Ld-Ld	40	68	0.25
820KD10	Ld-Ld	50	82	1
101KD10	Ld-Ld	60	100	1
121KD10	Ld-Ld	75	120	1
151KD10	Ld-Ld	95	150	1
181KD10	Ld-Ld	115	180	1
201KD10	Ld-Ld	130	200	3
221KD10	Ld-Ld	140	220	3
241KD10	Ld-Ld	150	240	3
271KD10	Ld-Ld	175	270	3
301KD10	Ld-Ld	190	300	3



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331KD10	Ld-Ld	210	330	3
361KD10	Ld-Ld	230	360	3
391KD10	Ld-Ld	250	390	3
431KD10	Ld-Ld	275	430	3
471KD10	Ld-Ld	300	470	3
511KD10	Ld-Ld	320	510	3
561KD10	Ld-Ld	350	560	3
621KD10	Ld-Ld	385	620	3
681KD10	Ld-Ld	420	680	3
751KD10	Ld-Ld	460	750	3
781KD10	Ld-Ld	485	780	3
821KD10	Ld-Ld	510	820	3
911KD10	Ld-Ld	550	910	3
102KD10	Ld-Ld	625	1000	3
112KD10	Ld-Ld	680	1100	3
122KD10	Ld-Ld	750	1200	3

14mm series - 14D series (ordering code 14D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KD14	Ld-Ld	11	18	0.5
220KD14	Ld-Ld	14	22	0.5
270KD14	Ld-Ld	17	27	0.5
330KD14	Ld-Ld	20	33	0.5
390KD14	Ld-Ld	25	39	0.5
470KD14	Ld-Ld	30	47	0.5
560KD14	Ld-Ld	35	56	0.5
680KD14	Ld-Ld	40	68	0.5
820KD14	Ld-Ld	50	82	2
101KD14	Ld-Ld	60	100	2
121KD14	Ld-Ld	75	120	2
151KD14	Ld-Ld	95	150	2
181KD14	Ld-Ld	115	180	2
201KD14	Ld-Ld	130	200	3
221KD14	Ld-Ld	140	220	3
241KD14	Ld-Ld	150	240	3
271KD14	Ld-Ld	175	270	3
301KD14	Ld-Ld	190	300	3
331KD14	Ld-Ld	210	330	3
361KD14	Ld-Ld	230	360	3
391KD14	Ld-Ld	250	390	3



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431KD14	Ld-Ld	275	430	3
471KD14	Ld-Ld	300	470	3
511KD14	Ld-Ld	320	510	3
561KD14	Ld-Ld	350	560	3
621KD14	Ld-Ld	385	620	3
681KD14	Ld-Ld	420	680	3
751KD14	Ld-Ld	460	750	3
781KD14	Ld-Ld	485	780	3
821KD14	Ld-Ld	510	820	3
911KD14	Ld-Ld	550	910	3
102KD14	Ld-Ld	625	1000	3
112KD14	Ld-Ld	680	1100	3
122KD14	Ld-Ld	750	1200	3
142KD14	Ld-Ld	880	1400	3
162KD14	Ld-Ld	1000	1600	3
182KD14	Ld-Ld	1100	1800	3

20mm series - 20D series (ordering code 20D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KD20	Ld-Ld	11	18	1
220KD20	Ld-Ld	14	22	1
270KD20	Ld-Ld	17	27	1
330KD20	Ld-Ld	20	33	1
390KD20	Ld-Ld	25	39	1
470KD20	Ld-Ld	30	47	1
560KD20	Ld-Ld	35	56	1
680KD20	Ld-Ld	40	68	1
820KD20	Ld-Ld	50	82	2.5
101KD20	Ld-Ld	60	100	2.5
121KD20	Ld-Ld	75	120	2.5
151KD20	Ld-Ld	95	150	2.5
181KD20	Ld-Ld	115	180	2.5
201KD20	Ld-Ld	130	200	3
221KD20	Ld-Ld	140	220	3
241KD20	Ld-Ld	150	240	3
271KD20	Ld-Ld	175	270	3
301KD20	Ld-Ld	190	300	3
331KD20	Ld-Ld	210	330	3
361KD20	Ld-Ld	230	360	3
391KD20	Ld-Ld	250	390	3



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431KD20	Ld-Ld	275	430	3
471KD20	Ld-Ld	300	470	3
511KD20	Ld-Ld	320	510	3
561KD20	Ld-Ld	350	560	3
621KD20	Ld-Ld	385	620	3
681KD20	Ld-Ld	420	680	3
751KD20	Ld-Ld	460	750	3
781KD20	Ld-Ld	485	780	3
821KD20	Ld-Ld	510	820	3
911KD20	Ld-Ld	550	910	3
102KD20	Ld-Ld	625	1000	3
112KD20	Ld-Ld	680	1100	3
122KD20	Ld-Ld	750	1200	3
142KD20	Ld-Ld	880	1400	3
162KD20	Ld-Ld	1000	1600	3
182KD20	Ld-Ld	1100	1800	3

25mm series - 25D series (ordering code 25D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
820KD25	Ld-Ld	50	82	3
101KD25	Ld-Ld	60	100	3
121KD25	Ld-Ld	75	120	3
151KD25	Ld-Ld	95	150	3
181KD25	Ld-Ld	115	180	3
201KD25	Ld-Ld	130	200	5
221KD25	Ld-Ld	140	220	5
241KD25	Ld-Ld	150	240	5
271KD25	Ld-Ld	175	270	5
301KD25	Ld-Ld	190	300	5
331KD25	Ld-Ld	210	330	5
361KD25	Ld-Ld	230	360	5
391KD25	Ld-Ld	250	390	5
431KD25	Ld-Ld	275	430	5
471KD25	Ld-Ld	300	470	5
511KD25	Ld-Ld	320	510	5
561KD25	Ld-Ld	350	560	5
621KD25	Ld-Ld	385	620	5
681KD25	Ld-Ld	420	680	5
751KD25	Ld-Ld	460	750	5
781KD25	Ld-Ld	485	780	5
821KD25	Ld-Ld	510	820	5



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911KD25	Ld-Ld	550	910	5
102KD25	Ld-Ld	625	1000	5
112KD25	Ld-Ld	680	1100	5
122KD25	Ld-Ld	750	1200	5
142KD25	Ld-Ld	880	1400	5
162KD25	Ld-Ld	1000	1600	5
182KD25	Ld-Ld	1100	1800	5

32mm series - 32D series (ordering code 32D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
201KD32	Ld-Ld	130	200	10
221KD32	Ld-Ld	140	220	10
241KD32	Ld-Ld	150	240	10
271KD32	Ld-Ld	175	270	10
301KD32	Ld-Ld	190	300	10
331KD32	Ld-Ld	210	330	10
361KD32	Ld-Ld	230	360	10
391KD32	Ld-Ld	250	390	10
431KD32	Ld-Ld	275	430	10
471KD32	Ld-Ld	300	470	10
511KD32	Ld-Ld	320	510	10
561KD32	Ld-Ld	350	560	10
621KD32	Ld-Ld	385	620	10
681KD32	Ld-Ld	420	680	10
751KD32	Ld-Ld	460	750	10
781KD32	Ld-Ld	485	780	10
821KD32	Ld-Ld	510	820	10
911KD32	Ld-Ld	550	910	10
102KD32	Ld-Ld	625	1000	10
112KD32	Ld-Ld	680	1100	10
122KD32	Ld-Ld	750	1200	10
142KD32	Ld-Ld	880	1400	10
162KD32	Ld-Ld	1000	1600	10

40mm series - 40D series (ordering code 40D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
201KD40	Ld-Ld	130	200	20
221KD40	Ld-Ld	140	220	20
241KD40	Ld-Ld	150	240	20



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271KD40	Ld-Ld	175	270	20
301KD40	Ld-Ld	190	300	20
331KD40	Ld-Ld	210	330	20
361KD40	Ld-Ld	230	360	20
391KD40	Ld-Ld	250	390	20
431KD40	Ld-Ld	275	430	20
471KD40	Ld-Ld	300	470	20
511KD40	Ld-Ld	320	510	20
561KD40	Ld-Ld	350	560	20
621KD40	Ld-Ld	385	620	20
681KD40	Ld-Ld	420	680	20
751KD40	Ld-Ld	460	750	20
781KD40	Ld-Ld	485	780	20
821KD40	Ld-Ld	510	820	20
911KD40	Ld-Ld	550	910	20
102KD40	Ld-Ld	625	1000	20
112KD40	Ld-Ld	680	1100	20
122KD40	Ld-Ld	750	1200	20
142KD40	Ld-Ld	880	1400	20
162KD40	Ld-Ld	1000	1600	20

53mm series - 53D series (ordering code 53D) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
201KD53	Ld-Ld	130	200	20
221KD53	Ld-Ld	140	220	20
241KD53	Ld-Ld	150	240	20
271KD53	Ld-Ld	175	270	20
301KD53	Ld-Ld	190	300	20
331KD53	Ld-Ld	210	330	20
361KD53	Ld-Ld	230	360	20
391KD53	Ld-Ld	250	390	20
431KD53	Ld-Ld	275	430	20
471KD53	Ld-Ld	300	470	20
511KD53	Ld-Ld	320	510	20
561KD53	Ld-Ld	350	560	20
621KD53	Ld-Ld	385	620	20
681KD53	Ld-Ld	420	680	20
751KD53	Ld-Ld	460	750	20
781KD53	Ld-Ld	485	780	20
821KD53	Ld-Ld	510	820	20
911KD53	Ld-Ld	550	910	20



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102KD53	Ld-Ld	625	1000	20
112KD53	Ld-Ld	680	1100	20
122KD53	Ld-Ld	750	1200	20
142KD53	Ld-Ld	880	1400	20
162KD53	Ld-Ld	1000	1600	20

34mm series - 34S series (ordering code 34S) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
181KS34	Ld-Ld	115	180	20
201KS34	Ld-Ld	130	200	20
221KS34	Ld-Ld	140	220	20
241KS34	Ld-Ld	150	240	20
271KS34	Ld-Ld	175	270	20
301KS34	Ld-Ld	190	300	20
331KS34	Ld-Ld	210	330	20
361KS34	Ld-Ld	230	360	20
391KS34	Ld-Ld	250	390	20
431KS34	Ld-Ld	275	430	20
471KS34	Ld-Ld	300	470	20
511KS34	Ld-Ld	320	510	20
561KS34	Ld-Ld	350	560	20
621KS34	Ld-Ld	385	620	20
681KS34	Ld-Ld	420	680	20
751KS34	Ld-Ld	460	750	20
781KS34	Ld-Ld	485	780	20
821KS34	Ld-Ld	510	820	20
911KS34	Ld-Ld	550	910	20
102KS34	Ld-Ld	625	1000	20
112KS34	Ld-Ld	680	1100	20
122KS34	Ld-Ld	750	1200	20
142KS34	Ld-Ld	880	1400	20
162KS34	Ld-Ld	1000	1600	20

34mm series - 34R series (ordering code 34R) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
241KR34	Ld-Ld	150	240	20
271KR34	Ld-Ld	175	270	20
301KR34	Ld-Ld	190	300	20
331KR34	Ld-Ld	210	330	20



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361KR34	Ld-Ld	230	360	20
391KR34	Ld-Ld	250	390	20
431KR34	Ld-Ld	275	430	20
471KR34	Ld-Ld	300	470	20
511KR34	Ld-Ld	320	510	20
561KR34	Ld-Ld	350	560	20
621KR34	Ld-Ld	385	620	20
681KR34	Ld-Ld	420	680	20
751KR34	Ld-Ld	460	750	20
781KR34	Ld-Ld	485	780	20
821KR34	Ld-Ld	510	820	20
911KR34	Ld-Ld	550	910	20
102KR34	Ld-Ld	625	1000	20
112KR34	Ld-Ld	680	1100	20
122KR34	Ld-Ld	750	1200	20

5mm series - 5H series (ordering code 5H) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KH05	Ld-Ld	11	18	0.05
220KH05	Ld-Ld	14	22	0.05
270KH05	Ld-Ld	17	27	0.05
330KH05	Ld-Ld	20	33	0.1
390KH05	Ld-Ld	25	39	0.1
470KH05	Ld-Ld	30	47	0.1
560KH05	Ld-Ld	35	56	0.1
680KH05	Ld-Ld	40	68	0.1
820KH05	Ld-Ld	50	82	0.1
101KH05	Ld-Ld	60	100	0.1
121KH05	Ld-Ld	75	120	0.1
151KH05	Ld-Ld	95	150	0.1
181KH05	Ld-Ld	115	180	0.1
201KH05	Ld-Ld	130	200	0.25
221KH05	Ld-Ld	140	220	0.25
241KH05	Ld-Ld	150	240	0.25
271KH05	Ld-Ld	175	270	0.25
301KH05	Ld-Ld	190	300	0.25
331KH05	Ld-Ld	210	330	0.25
361KH05	Ld-Ld	230	360	0.25
391KH05	Ld-Ld	250	390	0.25
431KH05	Ld-Ld	275	430	0.25



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471KH05	Ld-Ld	300	470	0.25
511KH05	Ld-Ld	320	510	0.25
561KH05	Ld-Ld	350	560	0.25
621KH05	Ld-Ld	385	620	0.25
681KH05	Ld-Ld	420	680	0.25
751KH05	Ld-Ld	460	750	0.25
781KH05	Ld-Ld	485	780	0.25
821KH05	Ld-Ld	510	820	0.25
911KH05	Ld-Ld	550	910	0.25

7mm series - 7H series (ordering code 7H) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KH07	Ld-Ld	11	18	0.1
220KH07	Ld-Ld	14	22	0.1
270KH07	Ld-Ld	17	27	0.1
330KH07	Ld-Ld	20	33	0.1
390KH07	Ld-Ld	25	39	0.1
470KH07	Ld-Ld	30	47	0.1
560KH07	Ld-Ld	35	56	0.1
680KH07	Ld-Ld	40	68	0.1
820KH07	Ld-Ld	50	82	0.25
101KH07	Ld-Ld	60	100	0.25
121KH07	Ld-Ld	75	120	0.25
151KH07	Ld-Ld	95	150	0.25
181KH07	Ld-Ld	115	180	0.25
201KH07	Ld-Ld	130	200	0.5
221KH07	Ld-Ld	140	220	0.5
241KH07	Ld-Ld	150	240	0.5
271KH07	Ld-Ld	175	270	0.5
301KH07	Ld-Ld	190	300	0.5
331KH07	Ld-Ld	210	330	0.5
361KH07	Ld-Ld	230	360	0.5
391KH07	Ld-Ld	250	390	0.5
431KH07	Ld-Ld	275	430	0.5
471KH07	Ld-Ld	300	470	0.5
511KH07	Ld-Ld	320	510	0.5
561KH07	Ld-Ld	350	560	0.5
621KH07	Ld-Ld	385	620	0.5
681KH07	Ld-Ld	420	680	0.5
751KH07	Ld-Ld	460	750	0.5



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781KH07	Ld-Ld	485	780	0.5
821KH07	Ld-Ld	510	820	0.5
911KH07	Ld-Ld	550	910	0.5

10mm series - 10H series (ordering code 10H) series:

Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KH10	Ld-Ld	11	18	0.25
220KH10	Ld-Ld	14	22	0.25
270KH10	Ld-Ld	17	27	0.25
330KH10	Ld-Ld	20	33	0.25
390KH10	Ld-Ld	25	39	0.25
470KH10	Ld-Ld	30	47	0.25
560KH10	Ld-Ld	35	56	0.25
680KH10	Ld-Ld	40	68	0.25
820KH10	Ld-Ld	50	82	1
101KH10	Ld-Ld	60	100	1
121KH10	Ld-Ld	75	120	1
151KH10	Ld-Ld	95	150	1
181KH10	Ld-Ld	115	180	1
201KH10	Ld-Ld	130	200	3
221KH10	Ld-Ld	140	220	3
241KH10	Ld-Ld	150	240	3
271KH10	Ld-Ld	175	270	3
301KH10	Ld-Ld	190	300	3
331KH10	Ld-Ld	210	330	3
361KH10	Ld-Ld	230	360	3
391KH10	Ld-Ld	250	390	3
431KH10	Ld-Ld	275	430	3
471KH10	Ld-Ld	300	470	3
511KH10	Ld-Ld	320	510	3
561KH10	Ld-Ld	350	560	3
621KH10	Ld-Ld	385	620	3
681KH10	Ld-Ld	420	680	3
751KH10	Ld-Ld	460	750	3
781KH10	Ld-Ld	485	780	3
821KH10	Ld-Ld	510	820	3
911KH10	Ld-Ld	550	910	3
102KH10	Ld-Ld	625	1000	3
112KH10	Ld-Ld	680	1100	3
122KH10	Ld-Ld	750	1200	3



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14mm series - 14H series (ordering code 14H) series:				
Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KH14	Ld-Ld	11	18	0.5
220KH14	Ld-Ld	14	22	0.5
270KH14	Ld-Ld	17	27	0.5
330KH14	Ld-Ld	20	33	0.5
390KH14	Ld-Ld	25	39	0.5
470KH14	Ld-Ld	30	47	0.5
560KH14	Ld-Ld	35	56	0.5
680KH14	Ld-Ld	40	68	0.5
820KH14	Ld-Ld	50	82	2
101KH14	Ld-Ld	60	100	2
121KH14	Ld-Ld	75	120	2
151KH14	Ld-Ld	95	150	2
181KH14	Ld-Ld	115	180	2
201KH14	Ld-Ld	130	200	3
221KH14	Ld-Ld	140	220	3
241KH14	Ld-Ld	150	240	3
271KH14	Ld-Ld	175	270	3
301KH14	Ld-Ld	190	300	3
331KH14	Ld-Ld	210	330	3
361KH14	Ld-Ld	230	360	3
391KH14	Ld-Ld	250	390	3
431KH14	Ld-Ld	275	430	3
471KH14	Ld-Ld	300	470	3
511KH14	Ld-Ld	320	510	3
561KH14	Ld-Ld	350	560	3
621KH14	Ld-Ld	385	620	3
681KH14	Ld-Ld	420	680	3
751KH14	Ld-Ld	460	750	3
781KH14	Ld-Ld	485	780	3
821KH14	Ld-Ld	510	820	3
911KH14	Ld-Ld	550	910	3
102KH14	Ld-Ld	625	1000	3
112KH14	Ld-Ld	680	1100	3
122KH14	Ld-Ld	750	1200	3
142KH14	Ld-Ld	880	1400	3
162KH14	Ld-Ld	1000	1600	3
182KH14	Ld-Ld	1100	1800	3



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20mm series - 20H series (ordering code 20H) series:				
Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KH20	Ld-Ld	11	18	1
220KH20	Ld-Ld	14	22	1
270KH20	Ld-Ld	17	27	1
330KH20	Ld-Ld	20	33	1
390KH20	Ld-Ld	25	39	1
470KH20	Ld-Ld	30	47	1
560KH20	Ld-Ld	35	56	1
680KH20	Ld-Ld	40	68	1
820KH20	Ld-Ld	50	82	2.5
101KH20	Ld-Ld	60	100	2.5
121KH20	Ld-Ld	75	120	2.5
151KH20	Ld-Ld	95	150	2.5
181KH20	Ld-Ld	115	180	2.5
201KH20	Ld-Ld	130	200	3
221KH20	Ld-Ld	140	220	3
241KH20	Ld-Ld	150	240	3
271KH20	Ld-Ld	175	270	3
301KH20	Ld-Ld	190	300	3
331KH20	Ld-Ld	210	330	3
361KH20	Ld-Ld	230	360	3
391KH20	Ld-Ld	250	390	3
431KH20	Ld-Ld	275	430	3
471KH20	Ld-Ld	300	470	3
511KH20	Ld-Ld	320	510	3
561KH20	Ld-Ld	350	560	3
621KH20	Ld-Ld	385	620	3
681KH20	Ld-Ld	420	680	3
751KH20	Ld-Ld	460	750	3
781KH20	Ld-Ld	485	780	3
821KH20	Ld-Ld	510	820	3
911KH20	Ld-Ld	550	910	3
102KH20	Ld-Ld	625	1000	3
112KH20	Ld-Ld	680	1100	3
122KH20	Ld-Ld	750	1200	3
142KH20	Ld-Ld	880	1400	3
162KH20	Ld-Ld	1000	1600	3
182KH20	Ld-Ld	1100	1800	3



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25mm series - 25H series (ordering code 25H) series:				
Model #	Mode (Ld-Ld)	MCOV (V) ac	Varistor Voltage Vn (Vdc)	Nominal Discharge Current (In) (kA)
180KH25	Ld-Ld	11	18	2
220KH25	Ld-Ld	14	22	2
270KH25	Ld-Ld	17	27	2
330KH25	Ld-Ld	20	33	2
390KH25	Ld-Ld	25	39	2
470KH25	Ld-Ld	30	47	2
560KH25	Ld-Ld	35	56	2
680KH25	Ld-Ld	40	68	2
820KH25	Ld-Ld	50	82	3
101KH25	Ld-Ld	60	100	3
121KH25	Ld-Ld	75	120	3
151KH25	Ld-Ld	95	150	3
181KH25	Ld-Ld	115	180	3
201KH25	Ld-Ld	130	200	5
221KH25	Ld-Ld	140	220	5
241KH25	Ld-Ld	150	240	5
271KH25	Ld-Ld	175	270	5
301KH25	Ld-Ld	190	300	5
331KH25	Ld-Ld	210	330	5
361KH25	Ld-Ld	230	360	5
391KH25	Ld-Ld	250	390	5
431KH25	Ld-Ld	275	430	5
471KH25	Ld-Ld	300	470	5
511KH25	Ld-Ld	320	510	5
561KH25	Ld-Ld	350	560	5
621KH25	Ld-Ld	385	620	5
681KH25	Ld-Ld	420	680	5
751KH25	Ld-Ld	460	750	5
781KH25	Ld-Ld	485	780	5
821KH25	Ld-Ld	510	820	5
911KH25	Ld-Ld	550	910	5
102KH25	Ld-Ld	625	1000	5
112KH25	Ld-Ld	680	1100	5
122KH25	Ld-Ld	750	1200	5
142KH25	Ld-Ld	880	1400	5
162KH25	Ld-Ld	1000	1600	5
182KH25	Ld-Ld	1100	1800	5



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Notes:

1. These varistors are certified for use only as components of other Certified equipment where the suitability of the combination is to be determined by CSA Group.
2. Fuse protection may be required in combustible enclosure, where the varistor is surge rated 6000A or less.
3. The model designation may be followed by the suffix "J", "E" or "X"; and may then be followed by any alpha-numeric characters (A – Z and/or 0 – 9) indicating different lead length, lead shape, leads spacing or customer's request.

APPLICABLE REQUIREMENTS

C22.2 No. 269.5-17 - Surge protective devices - Type 5 - Components

Notes:

Products certified under Class C221331 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80131919	2022-07-13	Update report to revise the name and address of submittor.
80022274	2019-10-30	Update report 2161766 to correct the model name from 50D series to 53D series.
70200543	2019-04-15	Update report 2161766 to upgrade standard to CSA 269.5-17 in accordance with CSA Certification Notice for Surge Protective Devices No.08 and add new coating & models.
2365654	2011-01-26	Addition of factory "Lien Shun Electronics (Hui Yang) Co., Ltd."
2161766	2010-04-30	Original Certification.