



Certificate of Compliance

Certificate: 80073905

Master Contract: 602559

Project: 80073905

Date Issued: 2021-03-23

Issued to: Yageo Corporation

3F, No.233-1, Baoqiao Rd.,
Xindian Dist.
New Taipei City, Taipei City 23145
Taiwan

Attention: Mr. Tom Wu

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



Miko MO

Issued by: Miko Mo

PRODUCTS

Class: 2213 31 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
560KD05	Ld-Ld	35	56	0.1



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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
181KD07	Ld-Ld	115	180	0.25
201KD07	Ld-Ld	130	200	0.5
221KD07	Ld-Ld	140	220	0.5



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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
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



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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
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



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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
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



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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
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:



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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
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



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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
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



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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
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



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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
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



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



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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

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown without an indicator for Canada only (indicating that products have been manufactured to the requirements of Canadian Standards).

The products listed are eligible to bear the CSA Mark shown without an indicator for Canada only (indicating that products have been manufactured to the requirements of Canadian Standards).

Nameplate adhesive label material approval information: N/A

Method: A CSA Monogram and other required information laser-marked or ink-transferred to the varistor body.



Supplement to Certificate of Compliance

Certificate: 80073905

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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
80073905	2021-03-23	Multiple Listing for Yageo Corporation. Type 5 – Component Surge Protective Devices (SPD), Varistors Type D, S, R and H Series. Submittor models 180KD05,220KD05,270KD05,330KD05,390KD05,470KD05,560KD05,680KD05,820KD05,101KD05,121KD05,151KD05,181KD05,201KD05,221KD05,241KD05,271KD05,301KD05,331KD05,361KD05,391KD05,431KD05,471KD05,511KD05,561KD05,621KD05,681KD05,751KD05,781KD05,821KD05,911KD05,180KD07,220KD07,270KD07,330KD07,390KD07,470KD07,560KD07,680KD07,820KD07,101KD07,121KD07,151KD07,181KD07,201KD07,221KD07,241KD07,271KD07,301KD07,331KD07,361KD07,391KD07,431KD07,471KD07,511KD07,561KD07,621KD07,681KD07,751KD07,781KD07,821KD07,911KD07,180KD10,220KD10,270KD10,330KD10,390KD10,470KD10,560KD10,680KD10,820KD10,101KD10,121KD10,151KD10,181KD10,201KD10,221KD10,241KD10,271KD10,301KD10,331KD10,361KD10,391KD10,431KD10,471KD10,511KD10,561KD10,621KD10,681KD10,751KD10,781KD10,821KD10,911KD10,102KD10,112KD10,122KD10,180KD14,220KD14,270KD14,330KD14,390KD14,470KD14,560KD14,680KD14,820KD14,101KD14,121KD14,151KD14,181KD14,201KD14,221KD14,241KD14,271KD14,301KD14,331KD14,361KD14,391KD14,431KD14,471KD14,511KD14,561KD14,621KD14,681KD14,751KD14,781KD14,821KD14,911KD14,102KD14,112KD14,122KD14,142KD14,162KD14,182KD14,180KD20,220KD20,270KD20,330KD20,390KD20,470KD20,560KD20,680KD20,820KD20,101KD20,121KD20,151KD20,181KD20,201KD20,221KD20,241KD20,271KD20,301KD20,331KD20,361KD20,391KD20,431KD20,471KD20,511KD20,561KD20,621KD20,681KD20,751KD20,781KD20,821KD20,911KD20,102KD20,112KD20,122KD20,142KD20,162KD20,182KD20,820KD25,101KD25,121KD25,151KD25,181KD25,201KD25,221KD25,241KD25,271KD25,301KD25,331KD25,361KD25,391KD25,431KD25,471KD25,511KD25,561KD25,621KD25,681KD25,751KD25,781KD25,821KD25,911KD25,102KD25,112KD25,122KD25,142KD25,162KD25,182KD25,201KD32,221KD32,241KD32,271KD32,301KD32,331KD32,361KD32,391KD32,431KD32,471KD32,511KD32,561KD32,621KD32,681KD32,751KD32,781KD32,821KD32,911KD32,102KD32,112KD32,122KD32,142KD32,162KD32,201KD40,221KD40,241KD40,271KD40,301KD40,331KD40,361KD40,391KD40,431KD40,471KD40,511KD40,561KD40,621KD40,681KD40,751KD40,781KD40,821KD40,911KD40,102KD40,112KD40,122KD40,142KD40,162KD40,201KD53,221KD53,241KD53,271KD53,301KD53,331KD53,361KD53,391KD53,431KD53,471KD53,511KD53,561KD53,621KD53



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681KD53,751KD53,781KD53,821KD53,911KD53,102KD53,112KD53,122KD53,142KD53,162KD53,181KS34,201KS34,221KS34,241KS34,271KS34,301KS34,331KS34,361KS34,391KS34,431KS34,471KS34,511KS34,561KS34,621KS34,681KS34,751KS34,781KS34,821KS34,911KS34,102KS34,112KS34,122KS34,142KS34,162KS34,241KR34,271KR34,301KR34,331KR34,361KR34,391KR34,431KR34,471KR34,511KR34,561KR34,621KR34,681KR34,751KR34,781KR34,821KR34,911KR34,102KR34,112KR34,122KR34,180KH05,220KH05,270KH05,330KH05,390KH05,470KH05,560KH05,680KH05,820KH05,101KH05,121KH05,151KH05,181KH05,201KH05,221KH05,241KH05,271KH05,301KH05,331KH05,361KH05,391KH05,431KH05,471KH05,511KH05,561KH05,621KH05,681KH05,751KH05,781KH05,821KH05,911KH05,180KH07,220KH07,270KH07,330KH07,390KH07,470KH07,560KH07,680KH07,820KH07,101KH07,121KH07,151KH07,181KH07,201KH07,221KH07,241KH07,271KH07,301KH07,331KH07,361KH07,391KH07,431KH07,471KH07,511KH07,561KH07,621KH07,681KH07,751KH07,781KH07,821KH07,911KH07,180KH10,220KH10,270KH10,330KH10,390KH10,470KH10,560KH10,680KH10,820KH10,101KH10,121KH10,151KH10,181KH10,201KH10,221KH10,241KH10,271KH10,301KH10,331KH10,361KH10,391KH10,431KH10,471KH10,511KH10,561KH10,621KH10,681KH10,751KH10,781KH10,821KH10,911KH10,102KH10,112KH10,122KH10,180KH14,220KH14,270KH14,330KH14,390KH14,470KH14,560KH14,680KH14,820KH14,101KH14,121KH14,151KH14,181KH14,201KH14,221KH14,241KH14,271KH14,301KH14,331KH14,361KH14,391KH14,431KH14,471KH14,511KH14,561KH14,621KH14,681KH14,751KH14,781KH14,821KH14,911KH14,102KH14,112KH14,122KH14,142KH14,162KH14,182KH14,180KH20,220KH20,270KH20,330KH20,390KH20,470KH20,560KH20,680KH20,820KH20,101KH20,121KH20,151KH20,181KH20,201KH20,221KH20,241KH20,271KH20,301KH20,331KH20,361KH20,391KH20,431KH20,471KH20,511KH20,561KH20,621KH20,681KH20,751KH20,781KH20,821KH20,911KH20,102KH20,112KH20,122KH20,142KH20,162KH20,182KH20,180KH25,220KH25,270KH25,330KH25,390KH25,470KH25,560KH25,680KH25,820KH25,101KH25,121KH25,151KH25,181KH25,201KH25,221KH25,241KH25,271KH25,301KH25,331KH25,361KH25,391KH25,431KH25,471KH25,511KH25,561KH25,621KH25,681KH25,751KH25,781KH25,821KH25,911KH25,102KH25,112KH25,122KH25,142KH25,162KH25,182KH25 / Listee models
180KD05,220KD05,270KD05,330KD05,390KD05,470KD05,560KD05,680KD05,820KD05,101KD05,121KD05,151KD05,181KD05,201KD05,221KD05,241KD05,271KD05,301KD05,331KD05,361KD05,391KD05,431KD05,471KD05,511KD05,561KD05,621KD05,681KD05,751KD05,781KD05,821KD05,911KD05,180KD07,220KD07,270KD07,330KD07,390KD07,470KD07,560KD07,680KD07,820KD07,101KD07,121KD07,151KD07,181KD07,201KD07,221KD07,241KD07,271KD07,301KD07,331KD07,361KD07,391KD07,431KD07,471KD07,511KD07,561KD07,621KD07,681KD07,751KD07,781KD07,821KD07,911KD07,180KD10,220KD10,270KD10,330KD10,390KD10,470KD10,560KD10,680KD10,820KD10,101KD10,121KD10,151KD10,181KD10,201KD10,221KD10,241KD10,271KD10,301KD10,331KD10,361



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KD10,391KD10,431KD10,471KD10,511KD10,561KD10,621KD10,681KD10,751KD10,781KD10,821KD10,911KD10,102KD10,112KD10,122KD10,180KD14,220KD14,270KD14,330KD14,390KD14,470KD14,560KD14,680KD14,820KD14,101KD14,121KD14,151KD14,181KD14,201KD14,221KD14,241KD14,271KD14,301KD14,331KD14,361KD14,391KD14,431KD14,471KD14,511KD14,561KD14,621KD14,681KD14,751KD14,781KD14,821KD14,911KD14,102KD14,112KD14,122KD14,142KD14,162KD14,182KD14,180KD20,220KD20,270KD20,330KD20,390KD20,470KD20,560KD20,680KD20,820KD20,101KD20,121KD20,151KD20,181KD20,201KD20,221KD20,241KD20,271KD20,301KD20,331KD20,361KD20,391KD20,431KD20,471KD20,511KD20,561KD20,621KD20,681KD20,751KD20,781KD20,821KD20,911KD20,102KD20,112KD20,122KD20,142KD20,162KD20,182KD20,820KD25,101KD25,121KD25,151KD25,181KD25,201KD25,221KD25,241KD25,271KD25,301KD25,331KD25,361KD25,391KD25,431KD25,471KD25,511KD25,561KD25,621KD25,681KD25,751KD25,781KD25,821KD25,911KD25,102KD25,112KD25,122KD25,142KD25,162KD25,182KD25,201KD32,221KD32,241KD32,271KD32,301KD32,331KD32,361KD32,391KD32,431KD32,471KD32,511KD32,561KD32,621KD32,681KD32,751KD32,781KD32,821KD32,911KD32,102KD32,112KD32,122KD32,142KD32,162KD32,201KD40,221KD40,241KD40,271KD40,301KD40,331KD40,361KD40,391KD40,431KD40,471KD40,511KD40,561KD40,621KD40,681KD40,751KD40,781KD40,821KD40,911KD40,102KD40,112KD40,122KD40,142KD40,162KD40,201KD53,221KD53,241KD53,271KD53,301KD53,331KD53,361KD53,391KD53,431KD53,471KD53,511KD53,561KD53,621KD53

681KD53,751KD53,781KD53,821KD53,911KD53,102KD53,112KD53,122KD53,142KD53,162KD53,181KS34,201KS34,221KS34,241KS34,271KS34,301KS34,331KS34,361KS34,391KS34,431KS34,471KS34,511KS34,561KS34,621KS34,681KS34,751KS34,781KS34,821KS34,911KS34,102KS34,112KS34,122KS34,142KS34,162KS34,241KR34,271KR34,301KR34,331KR34,361KR34,391KR34,431KR34,471KR34,511KR34,561KR34,621KR34,681KR34,751KR34,781KR34,821KR34,911KR34,102KR34,112KR34,122KR34,180KH05,220KH05,270KH05,330KH05,390KH05,470KH05,560KH05,680KH05,820KH05,101KH05,121KH05,151KH05,181KH05,201KH05,221KH05,241KH05,271KH05,301KH05,331KH05,361KH05,391KH05,431KH05,471KH05,511KH05,561KH05,621KH05,681KH05,751KH05,781KH05,821KH05,911KH05,180KH07,220KH07,270KH07,330KH07,390KH07,470KH07,560KH07,680KH07,820KH07,101KH07,121KH07,151KH07,181KH07,201KH07,221KH07,241KH07,271KH07,301KH07,331KH07,361KH07,391KH07,431KH07,471KH07,511KH07,561KH07,621KH07,681KH07,751KH07,781KH07,821KH07,911KH07,180KH10,220KH10,270KH10,330KH10,390KH10,470KH10,560KH10,680KH10,820KH10,101KH10,121KH10,151KH10,181KH10,201KH10,221KH10,241KH10,271KH10,301KH10,331KH10,361KH10,391KH10,431KH10,471KH10,511KH10,561KH10,621KH10,681KH10,751KH10,781KH10,821KH10,911KH10,102KH10,112KH10,122KH10,180KH14,220KH14,270KH14,330KH14,390KH14,470KH14,560KH14,680KH14,820KH14,101KH14,121KH14,151KH14,181KH14,201KH14,221KH14,241KH14,271KH14,301KH14,331KH14,361KH14,391KH14,431KH14,4



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71KH14,511KH14,561KH14,621KH14,681KH14,751KH14,781KH14,821KH14,911KH14,102KH14,112KH14,122KH14,142KH14,162KH14,182KH14,180KH20,220KH20,270KH20,330KH20,390KH20,470KH20,560KH20,680KH20,820KH20,101KH20,121KH20,151KH20,181KH20,201KH20,221KH20,241KH20,271KH20,301KH20,331KH20,361KH20,391KH20,431KH20,471KH20,511KH20,561KH20,621KH20,681KH20,751KH20,781KH20,821KH20,911KH20,102KH20,112KH20,122KH20,142KH20,162KH20,182KH20,180KH25,220KH25,270KH25,330KH25,390KH25,470KH25,560KH25,680KH25,820KH25,101KH25,121KH25,151KH25,181KH25,201KH25,221KH25,241KH25,271KH25,301KH25,331KH25,361KH25,391KH25,431KH25,471KH25,511KH25,561KH25,621KH25,681KH25,751KH25,781KH25,821KH25,911KH25,102KH25,112KH25,122KH25,142KH25,162KH25,182KH25

CORRELATION OF MODEL DESIGNATIONS

<u>Multiple Listing Application/Project No.</u>	<u>LISTEE'S MODELS</u>	<u>SUBMITTOR'S MODELS</u>	<u>Certification Report No.</u>
80073905	180KD05	180KD05	2161766
80073905	220KD05	220KD05	2161766
80073905	270KD05	270KD05	2161766
80073905	330KD05	330KD05	2161766
80073905	390KD05	390KD05	2161766
80073905	470KD05	470KD05	2161766
80073905	560KD05	560KD05	2161766
80073905	680KD05	680KD05	2161766
80073905	820KD05	820KD05	2161766
80073905	101KD05	101KD05	2161766
80073905	121KD05	121KD05	2161766
80073905	151KD05	151KD05	2161766
80073905	181KD05	181KD05	2161766
80073905	201KD05	201KD05	2161766
80073905	221KD05	221KD05	2161766
80073905	241KD05	241KD05	2161766
80073905	271KD05	271KD05	2161766
80073905	301KD05	301KD05	2161766
80073905	331KD05	331KD05	2161766
80073905	361KD05	361KD05	2161766
80073905	391KD05	391KD05	2161766
80073905	431KD05	431KD05	2161766



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80073905	471KD05	471KD05	2161766
80073905	511KD05	511KD05	2161766
80073905	561KD05	561KD05	2161766
80073905	621KD05	621KD05	2161766
80073905	681KD05	681KD05	2161766
80073905	751KD05	751KD05	2161766
80073905	781KD05	781KD05	2161766
80073905	821KD05	821KD05	2161766
80073905	911KD05	911KD05	2161766
80073905	180KD07	180KD07	2161766
80073905	220KD07	220KD07	2161766
80073905	270KD07	270KD07	2161766
80073905	330KD07	330KD07	2161766
80073905	390KD07	390KD07	2161766
80073905	470KD07	470KD07	2161766
80073905	560KD07	560KD07	2161766
80073905	680KD07	680KD07	2161766
80073905	820KD07	820KD07	2161766
80073905	101KD07	101KD07	2161766
80073905	121KD07	121KD07	2161766
80073905	151KD07	151KD07	2161766
80073905	181KD07	181KD07	2161766
80073905	201KD07	201KD07	2161766
80073905	221KD07	221KD07	2161766
80073905	241KD07	241KD07	2161766
80073905	271KD07	271KD07	2161766
80073905	301KD07	301KD07	2161766
80073905	331KD07	331KD07	2161766
80073905	361KD07	361KD07	2161766
80073905	391KD07	391KD07	2161766
80073905	431KD07	431KD07	2161766
80073905	471KD07	471KD07	2161766
80073905	511KD07	511KD07	2161766
80073905	561KD07	561KD07	2161766
80073905	621KD07	621KD07	2161766
80073905	681KD07	681KD07	2161766
80073905	751KD07	751KD07	2161766
80073905	781KD07	781KD07	2161766
80073905	821KD07	821KD07	2161766
80073905	911KD07	911KD07	2161766
80073905	180KD10	180KD10	2161766



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80073905	220KD10	220KD10	2161766
80073905	270KD10	270KD10	2161766
80073905	330KD10	330KD10	2161766
80073905	390KD10	390KD10	2161766
80073905	470KD10	470KD10	2161766
80073905	560KD10	560KD10	2161766
80073905	680KD10	680KD10	2161766
80073905	820KD10	820KD10	2161766
80073905	101KD10	101KD10	2161766
80073905	121KD10	121KD10	2161766
80073905	151KD10	151KD10	2161766
80073905	181KD10	181KD10	2161766
80073905	201KD10	201KD10	2161766
80073905	221KD10	221KD10	2161766
80073905	241KD10	241KD10	2161766
80073905	271KD10	271KD10	2161766
80073905	301KD10	301KD10	2161766
80073905	331KD10	331KD10	2161766
80073905	361KD10	361KD10	2161766
80073905	391KD10	391KD10	2161766
80073905	431KD10	431KD10	2161766
80073905	471KD10	471KD10	2161766
80073905	511KD10	511KD10	2161766
80073905	561KD10	561KD10	2161766
80073905	621KD10	621KD10	2161766
80073905	681KD10	681KD10	2161766
80073905	751KD10	751KD10	2161766
80073905	781KD10	781KD10	2161766
80073905	821KD10	821KD10	2161766
80073905	911KD10	911KD10	2161766
80073905	102KD10	102KD10	2161766
80073905	112KD10	112KD10	2161766
80073905	122KD10	122KD10	2161766
80073905	180KD14	180KD14	2161766
80073905	220KD14	220KD14	2161766
80073905	270KD14	270KD14	2161766
80073905	330KD14	330KD14	2161766
80073905	390KD14	390KD14	2161766
80073905	470KD14	470KD14	2161766
80073905	560KD14	560KD14	2161766
80073905	680KD14	680KD14	2161766



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80073905	820KD14	820KD14	2161766
80073905	101KD14	101KD14	2161766
80073905	121KD14	121KD14	2161766
80073905	151KD14	151KD14	2161766
80073905	181KD14	181KD14	2161766
80073905	201KD14	201KD14	2161766
80073905	221KD14	221KD14	2161766
80073905	241KD14	241KD14	2161766
80073905	271KD14	271KD14	2161766
80073905	301KD14	301KD14	2161766
80073905	331KD14	331KD14	2161766
80073905	361KD14	361KD14	2161766
80073905	391KD14	391KD14	2161766
80073905	431KD14	431KD14	2161766
80073905	471KD14	471KD14	2161766
80073905	511KD14	511KD14	2161766
80073905	561KD14	561KD14	2161766
80073905	621KD14	621KD14	2161766
80073905	681KD14	681KD14	2161766
80073905	751KD14	751KD14	2161766
80073905	781KD14	781KD14	2161766
80073905	821KD14	821KD14	2161766
80073905	911KD14	911KD14	2161766
80073905	102KD14	102KD14	2161766
80073905	112KD14	112KD14	2161766
80073905	122KD14	122KD14	2161766
80073905	142KD14	142KD14	2161766
80073905	162KD14	162KD14	2161766
80073905	182KD14	182KD14	2161766
80073905	180KD20	180KD20	2161766
80073905	220KD20	220KD20	2161766
80073905	270KD20	270KD20	2161766
80073905	330KD20	330KD20	2161766
80073905	390KD20	390KD20	2161766
80073905	470KD20	470KD20	2161766
80073905	560KD20	560KD20	2161766
80073905	680KD20	680KD20	2161766
80073905	820KD20	820KD20	2161766
80073905	101KD20	101KD20	2161766
80073905	121KD20	121KD20	2161766
80073905	151KD20	151KD20	2161766



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80073905	181KD20	181KD20	2161766
80073905	201KD20	201KD20	2161766
80073905	221KD20	221KD20	2161766
80073905	241KD20	241KD20	2161766
80073905	271KD20	271KD20	2161766
80073905	301KD20	301KD20	2161766
80073905	331KD20	331KD20	2161766
80073905	361KD20	361KD20	2161766
80073905	391KD20	391KD20	2161766
80073905	431KD20	431KD20	2161766
80073905	471KD20	471KD20	2161766
80073905	511KD20	511KD20	2161766
80073905	561KD20	561KD20	2161766
80073905	621KD20	621KD20	2161766
80073905	681KD20	681KD20	2161766
80073905	751KD20	751KD20	2161766
80073905	781KD20	781KD20	2161766
80073905	821KD20	821KD20	2161766
80073905	911KD20	911KD20	2161766
80073905	102KD20	102KD20	2161766
80073905	112KD20	112KD20	2161766
80073905	122KD20	122KD20	2161766
80073905	142KD20	142KD20	2161766
80073905	162KD20	162KD20	2161766
80073905	182KD20	182KD20	2161766
80073905	820KD25	820KD25	2161766
80073905	101KD25	101KD25	2161766
80073905	121KD25	121KD25	2161766
80073905	151KD25	151KD25	2161766
80073905	181KD25	181KD25	2161766
80073905	201KD25	201KD25	2161766
80073905	221KD25	221KD25	2161766
80073905	241KD25	241KD25	2161766
80073905	271KD25	271KD25	2161766
80073905	301KD25	301KD25	2161766
80073905	331KD25	331KD25	2161766
80073905	361KD25	361KD25	2161766
80073905	391KD25	391KD25	2161766
80073905	431KD25	431KD25	2161766
80073905	471KD25	471KD25	2161766
80073905	511KD25	511KD25	2161766



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80073905	561KD25	561KD25	2161766
80073905	621KD25	621KD25	2161766
80073905	681KD25	681KD25	2161766
80073905	751KD25	751KD25	2161766
80073905	781KD25	781KD25	2161766
80073905	821KD25	821KD25	2161766
80073905	911KD25	911KD25	2161766
80073905	102KD25	102KD25	2161766
80073905	112KD25	112KD25	2161766
80073905	122KD25	122KD25	2161766
80073905	142KD25	142KD25	2161766
80073905	162KD25	162KD25	2161766
80073905	182KD25	182KD25	2161766
80073905	201KD32	201KD32	2161766
80073905	221KD32	221KD32	2161766
80073905	241KD32	241KD32	2161766
80073905	271KD32	271KD32	2161766
80073905	301KD32	301KD32	2161766
80073905	331KD32	331KD32	2161766
80073905	361KD32	361KD32	2161766
80073905	391KD32	391KD32	2161766
80073905	431KD32	431KD32	2161766
80073905	471KD32	471KD32	2161766
80073905	511KD32	511KD32	2161766
80073905	561KD32	561KD32	2161766
80073905	621KD32	621KD32	2161766
80073905	681KD32	681KD32	2161766
80073905	751KD32	751KD32	2161766
80073905	781KD32	781KD32	2161766
80073905	821KD32	821KD32	2161766
80073905	911KD32	911KD32	2161766
80073905	102KD32	102KD32	2161766
80073905	112KD32	112KD32	2161766
80073905	122KD32	122KD32	2161766
80073905	142KD32	142KD32	2161766
80073905	162KD32	162KD32	2161766
80073905	201KD40	201KD40	2161766
80073905	221KD40	221KD40	2161766
80073905	241KD40	241KD40	2161766
80073905	271KD40	271KD40	2161766
80073905	301KD40	301KD40	2161766



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80073905	331KD40	331KD40	2161766
80073905	361KD40	361KD40	2161766
80073905	391KD40	391KD40	2161766
80073905	431KD40	431KD40	2161766
80073905	471KD40	471KD40	2161766
80073905	511KD40	511KD40	2161766
80073905	561KD40	561KD40	2161766
80073905	621KD40	621KD40	2161766
80073905	681KD40	681KD40	2161766
80073905	751KD40	751KD40	2161766
80073905	781KD40	781KD40	2161766
80073905	821KD40	821KD40	2161766
80073905	911KD40	911KD40	2161766
80073905	102KD40	102KD40	2161766
80073905	112KD40	112KD40	2161766
80073905	122KD40	122KD40	2161766
80073905	142KD40	142KD40	2161766
80073905	162KD40	162KD40	2161766
80073905	201KD53	201KD53	2161766
80073905	221KD53	221KD53	2161766
80073905	241KD53	241KD53	2161766
80073905	271KD53	271KD53	2161766
80073905	301KD53	301KD53	2161766
80073905	331KD53	331KD53	2161766
80073905	361KD53	361KD53	2161766
80073905	391KD53	391KD53	2161766
80073905	431KD53	431KD53	2161766
80073905	471KD53	471KD53	2161766
80073905	511KD53	511KD53	2161766
80073905	561KD53	561KD53	2161766
80073905	621KD53	621KD53	2161766
80073905	681KD53	681KD53	2161766
80073905	751KD53	751KD53	2161766
80073905	781KD53	781KD53	2161766
80073905	821KD53	821KD53	2161766
80073905	911KD53	911KD53	2161766
80073905	102KD53	102KD53	2161766
80073905	112KD53	112KD53	2161766
80073905	122KD53	122KD53	2161766
80073905	142KD53	142KD53	2161766
80073905	162KD53	162KD53	2161766



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80073905	181KS34	181KS34	2161766
80073905	201KS34	201KS34	2161766
80073905	221KS34	221KS34	2161766
80073905	241KS34	241KS34	2161766
80073905	271KS34	271KS34	2161766
80073905	301KS34	301KS34	2161766
80073905	331KS34	331KS34	2161766
80073905	361KS34	361KS34	2161766
80073905	391KS34	391KS34	2161766
80073905	431KS34	431KS34	2161766
80073905	471KS34	471KS34	2161766
80073905	511KS34	511KS34	2161766
80073905	561KS34	561KS34	2161766
80073905	621KS34	621KS34	2161766
80073905	681KS34	681KS34	2161766
80073905	751KS34	751KS34	2161766
80073905	781KS34	781KS34	2161766
80073905	821KS34	821KS34	2161766
80073905	911KS34	911KS34	2161766
80073905	102KS34	102KS34	2161766
80073905	112KS34	112KS34	2161766
80073905	122KS34	122KS34	2161766
80073905	142KS34	142KS34	2161766
80073905	162KS34	162KS34	2161766
80073905	241KR34	241KR34	2161766
80073905	271KR34	271KR34	2161766
80073905	301KR34	301KR34	2161766
80073905	331KR34	331KR34	2161766
80073905	361KR34	361KR34	2161766
80073905	391KR34	391KR34	2161766
80073905	431KR34	431KR34	2161766
80073905	471KR34	471KR34	2161766
80073905	511KR34	511KR34	2161766
80073905	561KR34	561KR34	2161766
80073905	621KR34	621KR34	2161766
80073905	681KR34	681KR34	2161766
80073905	751KR34	751KR34	2161766
80073905	781KR34	781KR34	2161766
80073905	821KR34	821KR34	2161766
80073905	911KR34	911KR34	2161766
80073905	102KR34	102KR34	2161766



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80073905	112KR34	112KR34	2161766
80073905	122KR34	122KR34	2161766
80073905	180KH05	180KH05	2161766
80073905	220KH05	220KH05	2161766
80073905	270KH05	270KH05	2161766
80073905	330KH05	330KH05	2161766
80073905	390KH05	390KH05	2161766
80073905	470KH05	470KH05	2161766
80073905	560KH05	560KH05	2161766
80073905	680KH05	680KH05	2161766
80073905	820KH05	820KH05	2161766
80073905	101KH05	101KH05	2161766
80073905	121KH05	121KH05	2161766
80073905	151KH05	151KH05	2161766
80073905	181KH05	181KH05	2161766
80073905	201KH05	201KH05	2161766
80073905	221KH05	221KH05	2161766
80073905	241KH05	241KH05	2161766
80073905	271KH05	271KH05	2161766
80073905	301KH05	301KH05	2161766
80073905	331KH05	331KH05	2161766
80073905	361KH05	361KH05	2161766
80073905	391KH05	391KH05	2161766
80073905	431KH05	431KH05	2161766
80073905	471KH05	471KH05	2161766
80073905	511KH05	511KH05	2161766
80073905	561KH05	561KH05	2161766
80073905	621KH05	621KH05	2161766
80073905	681KH05	681KH05	2161766
80073905	751KH05	751KH05	2161766
80073905	781KH05	781KH05	2161766
80073905	821KH05	821KH05	2161766
80073905	911KH05	911KH05	2161766
80073905	180KH07	180KH07	2161766
80073905	220KH07	220KH07	2161766
80073905	270KH07	270KH07	2161766
80073905	330KH07	330KH07	2161766
80073905	390KH07	390KH07	2161766
80073905	470KH07	470KH07	2161766
80073905	560KH07	560KH07	2161766
80073905	680KH07	680KH07	2161766



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80073905	820KH07	820KH07	2161766
80073905	101KH07	101KH07	2161766
80073905	121KH07	121KH07	2161766
80073905	151KH07	151KH07	2161766
80073905	181KH07	181KH07	2161766
80073905	201KH07	201KH07	2161766
80073905	221KH07	221KH07	2161766
80073905	241KH07	241KH07	2161766
80073905	271KH07	271KH07	2161766
80073905	301KH07	301KH07	2161766
80073905	331KH07	331KH07	2161766
80073905	361KH07	361KH07	2161766
80073905	391KH07	391KH07	2161766
80073905	431KH07	431KH07	2161766
80073905	471KH07	471KH07	2161766
80073905	511KH07	511KH07	2161766
80073905	561KH07	561KH07	2161766
80073905	621KH07	621KH07	2161766
80073905	681KH07	681KH07	2161766
80073905	751KH07	751KH07	2161766
80073905	781KH07	781KH07	2161766
80073905	821KH07	821KH07	2161766
80073905	911KH07	911KH07	2161766
80073905	180KH10	180KH10	2161766
80073905	220KH10	220KH10	2161766
80073905	270KH10	270KH10	2161766
80073905	330KH10	330KH10	2161766
80073905	390KH10	390KH10	2161766
80073905	470KH10	470KH10	2161766
80073905	560KH10	560KH10	2161766
80073905	680KH10	680KH10	2161766
80073905	820KH10	820KH10	2161766
80073905	101KH10	101KH10	2161766
80073905	121KH10	121KH10	2161766
80073905	151KH10	151KH10	2161766
80073905	181KH10	181KH10	2161766
80073905	201KH10	201KH10	2161766
80073905	221KH10	221KH10	2161766
80073905	241KH10	241KH10	2161766
80073905	271KH10	271KH10	2161766
80073905	301KH10	301KH10	2161766



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80073905	331KH10	331KH10	2161766
80073905	361KH10	361KH10	2161766
80073905	391KH10	391KH10	2161766
80073905	431KH10	431KH10	2161766
80073905	471KH10	471KH10	2161766
80073905	511KH10	511KH10	2161766
80073905	561KH10	561KH10	2161766
80073905	621KH10	621KH10	2161766
80073905	681KH10	681KH10	2161766
80073905	751KH10	751KH10	2161766
80073905	781KH10	781KH10	2161766
80073905	821KH10	821KH10	2161766
80073905	911KH10	911KH10	2161766
80073905	102KH10	102KH10	2161766
80073905	112KH10	112KH10	2161766
80073905	122KH10	122KH10	2161766
80073905	180KH14	180KH14	2161766
80073905	220KH14	220KH14	2161766
80073905	270KH14	270KH14	2161766
80073905	330KH14	330KH14	2161766
80073905	390KH14	390KH14	2161766
80073905	470KH14	470KH14	2161766
80073905	560KH14	560KH14	2161766
80073905	680KH14	680KH14	2161766
80073905	820KH14	820KH14	2161766
80073905	101KH14	101KH14	2161766
80073905	121KH14	121KH14	2161766
80073905	151KH14	151KH14	2161766
80073905	181KH14	181KH14	2161766
80073905	201KH14	201KH14	2161766
80073905	221KH14	221KH14	2161766
80073905	241KH14	241KH14	2161766
80073905	271KH14	271KH14	2161766
80073905	301KH14	301KH14	2161766
80073905	331KH14	331KH14	2161766
80073905	361KH14	361KH14	2161766
80073905	391KH14	391KH14	2161766
80073905	431KH14	431KH14	2161766
80073905	471KH14	471KH14	2161766
80073905	511KH14	511KH14	2161766
80073905	561KH14	561KH14	2161766



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80073905	621KH14	621KH14	2161766
80073905	681KH14	681KH14	2161766
80073905	751KH14	751KH14	2161766
80073905	781KH14	781KH14	2161766
80073905	821KH14	821KH14	2161766
80073905	911KH14	911KH14	2161766
80073905	102KH14	102KH14	2161766
80073905	112KH14	112KH14	2161766
80073905	122KH14	122KH14	2161766
80073905	142KH14	142KH14	2161766
80073905	162KH14	162KH14	2161766
80073905	182KH14	182KH14	2161766
80073905	180KH20	180KH20	2161766
80073905	220KH20	220KH20	2161766
80073905	270KH20	270KH20	2161766
80073905	330KH20	330KH20	2161766
80073905	390KH20	390KH20	2161766
80073905	470KH20	470KH20	2161766
80073905	560KH20	560KH20	2161766
80073905	680KH20	680KH20	2161766
80073905	820KH20	820KH20	2161766
80073905	101KH20	101KH20	2161766
80073905	121KH20	121KH20	2161766
80073905	151KH20	151KH20	2161766
80073905	181KH20	181KH20	2161766
80073905	201KH20	201KH20	2161766
80073905	221KH20	221KH20	2161766
80073905	241KH20	241KH20	2161766
80073905	271KH20	271KH20	2161766
80073905	301KH20	301KH20	2161766
80073905	331KH20	331KH20	2161766
80073905	361KH20	361KH20	2161766
80073905	391KH20	391KH20	2161766
80073905	431KH20	431KH20	2161766
80073905	471KH20	471KH20	2161766
80073905	511KH20	511KH20	2161766
80073905	561KH20	561KH20	2161766
80073905	621KH20	621KH20	2161766
80073905	681KH20	681KH20	2161766
80073905	751KH20	751KH20	2161766
80073905	781KH20	781KH20	2161766



Certificate: 80073905
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80073905	821KH20	821KH20	2161766
80073905	911KH20	911KH20	2161766
80073905	102KH20	102KH20	2161766
80073905	112KH20	112KH20	2161766
80073905	122KH20	122KH20	2161766
80073905	142KH20	142KH20	2161766
80073905	162KH20	162KH20	2161766
80073905	182KH20	182KH20	2161766
80073905	180KH25	180KH25	2161766
80073905	220KH25	220KH25	2161766
80073905	270KH25	270KH25	2161766
80073905	330KH25	330KH25	2161766
80073905	390KH25	390KH25	2161766
80073905	470KH25	470KH25	2161766
80073905	560KH25	560KH25	2161766
80073905	680KH25	680KH25	2161766
80073905	820KH25	820KH25	2161766
80073905	101KH25	101KH25	2161766
80073905	121KH25	121KH25	2161766
80073905	151KH25	151KH25	2161766
80073905	181KH25	181KH25	2161766
80073905	201KH25	201KH25	2161766
80073905	221KH25	221KH25	2161766
80073905	241KH25	241KH25	2161766
80073905	271KH25	271KH25	2161766
80073905	301KH25	301KH25	2161766
80073905	331KH25	331KH25	2161766
80073905	361KH25	361KH25	2161766
80073905	391KH25	391KH25	2161766
80073905	431KH25	431KH25	2161766
80073905	471KH25	471KH25	2161766
80073905	511KH25	511KH25	2161766
80073905	561KH25	561KH25	2161766
80073905	621KH25	621KH25	2161766
80073905	681KH25	681KH25	2161766
80073905	751KH25	751KH25	2161766
80073905	781KH25	781KH25	2161766
80073905	821KH25	821KH25	2161766
80073905	911KH25	911KH25	2161766
80073905	102KH25	102KH25	2161766
80073905	112KH25	112KH25	2161766



Certificate: 80073905

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80073905	122KH25	122KH25	2161766
80073905	142KH25	142KH25	2161766
80073905	162KH25	162KH25	2161766
80073905	182KH25	182KH25	2161766