

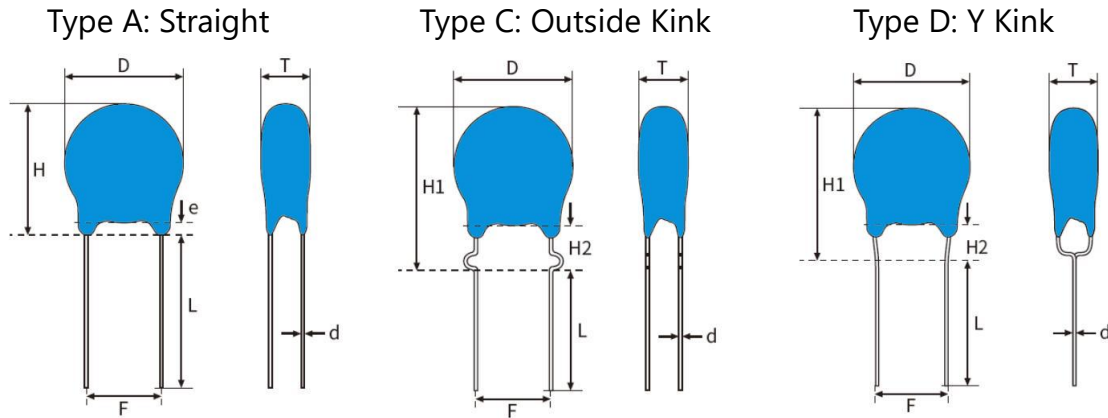
FEATURES

- Round Zinc Oxide Varistor, radial led type, high quality, standard
- Fast reaction time, Good voltage ratio, High stability loop voltage
- Superior transient voltage absorption characteristics
- Excellent voltage current symmetry
- Stable pressure limiting under over temperature
- High energy & 6KV3KA elements available on request
- Bulk, Cut leg, Ammo Taped, Ammo Reel package available

MARKING



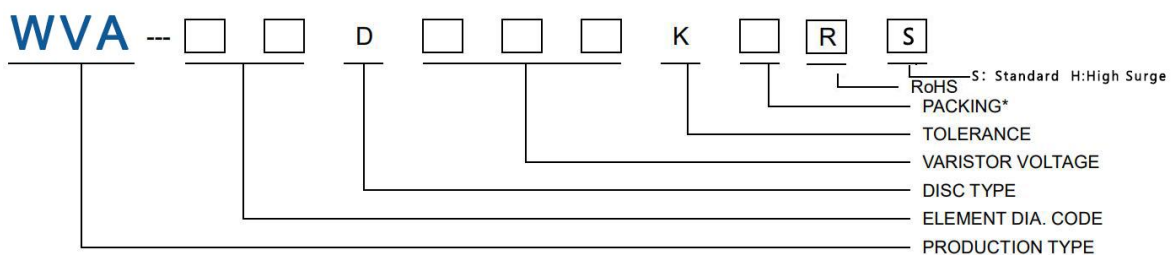
OUTLINES



DIMENSIONS (mm)

Size	Varistor Voltage (V)	Dimensions(mm)							
		DMax	TMax	F±1.0	d±0.1	H Max	H1 Max	H±2.0	L±3.0
5D	18-68	7.5	2.0~5.0	5.0	0.55	9.5	13.5	4.5	15
	82-680	7.5	2.5~7.0	5.0	0.55				
7D	18-68	9.5	2.0~5.0	5.0	0.55	12.0	15.0	4.5	
	82-820	9.5	2.5~7.0	5.0	0.55				
10D	18-68	13.5	2.0~6.0	7.5	0.7	16.5	20.5	4.5	
	82-1100	13.5	2.5~10.0	7.5	0.7				
14D	18-68	17.0	2.5~6.0	7.5	0.8	20.0	25.0	4.5	
	82-1800	17.0	2.5~15.0	7.5	0.8				
20D	18-68	23.5	3.0~7.0	10.0	1.0	26.5	32.5	5.0	
	82-1800	23.5	3.5~16.0	10.0	1.0				

HOW TO ORDER



*B for Bulk ; A for Ammo ; T for Tape & Reel

SPECIFICATIONS

Varistor Voltage (Threshold Voltage)		18V ~ 1800V
Working Voltage	AC(rms)	11VAC ~ 1000VAC
(Max. Allowable Voltage)	DC	14VDC ~ 1465VDC
Peak Current for 8/20μS	Standard Type	100A ~ 6500A
Current Wave	High surge Type	250A ~ 10000A
Energy Range For 10/1000μS	Standard Type	0.4J ~ 625J
Current Wave	High surge Type	0.6J ~ 990J
Operation Ambient Temperature Range		-40℃ ~ +85℃
Storage Temperature Range		-55℃ ~ +125℃
Insulation Resistance		>1000 MΩ
Hi-Pot (Leads to Coating)		2500 VAC for 1 min.
Typical Response Time		<25ns
Maximum Voltage-Temperature Coefficient		<-0.05% / °C

05D	07D	10D	14D	20D
05D180K	07D180K	10D180K	14D180K	20D180K
05D220K	07D220K	10D220K	14D220K	20D220K
05D270K	07D270K	10D270K	14D270K	20D270K
05D330K	07D330K	10D330K	14D330K	20D330K
05D390K	07D390K	10D390K	14D390K	20D390K
05D470K	07D470K	10D470K	14D470K	20D470K
05D560K	07D560K	10D560K	14D560K	20D560K
05D680K	07D680K	10D680K	14D680K	20D680K
05D820K	07D820K	10D820K	14D820K	20D820K
05D101K	07D101K	10D101K	14D101K	20D101K
05D121K	07D121K	10D121K	14D121K	20D121K
05D151K	07D151K	10D151K	14D151K	20D151K
05D181K	07D181K	10D181K	14D181K	20D181K
05D201K	07D201K	10D201K	14D201K	20D201K
05D221K	07D221K	10D221K	14D221K	20D221K
05D241K	07D241K	10D241K	14D241K	20D241K
05D271K	07D271K	10D271K	14D271K	20D271K
05D301K	07D301K	10D301K	14D301K	20D301K
05D331K	07D331K	10D331K	14D331K	20D331K
05D361K	07D361K	10D361K	14D361K	20D361K
05D391K	07D391K	10D391K	14D391K	20D391K
05D431K	07D431K	10D431K	14D431K	20D431K
05D471K	07D471K	10D471K	14D471K	20D471K
05D511K	07D511K	10D511K	14D511K	20D511K
05D561K	07D561K	10D561K	14D561K	20D561K
05D621K	07D621K	10D621K	14D621K	20D621K
05D681K	07D681K	10D681K	14D681K	20D681K
05D751K	07D751K	10D751K	14D751K	20D751K
	07D781K	10D781K	14D821K	20D821K
	07D821K	10D821K	14D911K	20D911K
		10D911K	14D102K	20D102K
		10D102K	14D112K	20D112K
		10D112K	14D182K	20D182K

SAFETY CERTIFICATIONS

Authority	Certification Standards	Product model	Certificate	Marking	Effect Date
VDE	DIN EN 61051-1:2009 IEC61051-1:2007	05D180L-05D471K	40046024		2017-04-10
	IEC61051-2:1991	07D180L-07D561K			
	IEC61051-2:1991/AMD1 :2009	10D180L-10D112K			
	IEC615051-2-2:1991	14D270K-14D751K			
	IEC60950-1:2003	20D270K-20D911K			
	AnnexQ 203A	40/125/21			
UL	UL1449	05D180L-05D681K	E489693		2021-09-02
	CSA C22.2	07D180L-07D821K			
		10D180L-10D112K			
		14D180L-14D182K			
		20D180L-20D182K			
CQC	GB/T10193-1997	05D180L-05D751K	CQC1600		2016-12-27
	GB/T10194-1997		1161078		
	GB/T10193-1997	07D180L-07D821K	CQC1600		2016-12-27
	GB/T10194-1997		1161079		
	GB4943.1-2011	10D431K-10D112K	CQC1600 1150286		2016-08-05
	GB8898-2011				
	GB4943.1-2011				
	GB8898-2011				
	GB/T10193-1997	10D180L-10D391K	CQC1600		2016-12-27
	GB/T10194-1997				
	GB4943.1-2011	14D431K-14D182K	CQC1600 1161077		2016-12-27
	GB8898-2011				
	GB4943.1-2011				
	GB8898-2011				
	GB/T10193-1997	14D180L-14D391K	CQC1600		2016-12-27
	GB/T10194-1997		1161077		
GB4943.1-2011	20D431K-20D182K	CQC1600 1161080		2016-12-27	
GB8898-2011					
GB4943.1-2011					
GB8898-2011					
GB/T10193-1997	20D180L-20D391K	CQC1600		2016-12-27	
GB/T10194-1997					

DETAILED PARAMETER TABLE

VARISTOR 07D	Varistor Voltage (@1.0mA)		Max. Continuous Operation Voltage		Max. Clamping Voltage	Max. Peak Current (@8/20us 1time)		Rated Wattage	Maximum Energy (10/1000us 1time)		Max Capacitance (Reference)
	Min	Max	ACrms	DC	Vc	Standard	High surge		Standard	High surge	@1KHz1.0V
	Specs	Volts	Volts	Volts	Volts	Volts	Amps	Amps	Watts	Joules	Joules
07D180K	14.4	21.6	11	14	38	250	500	0.02	0.8	2	2800
07D220K	18.7	26	14	18	43				0.9	2.4	2300
07D270K	23	31.1	17	22	53				1	3	1800
07D330K	29.5	36.5	20	26	65				1.2	3.5	1500
07D390K	35	43	25	31	77				1.2	4	1300
07D470K	42	52	30	38	93				1.8	4.5	1100
07D560K	50	62	35	45	110				2.3	5	890
07D680K	61	75	40	56	135				3	5.5	740
07D820K	74	90	50	65	135	1200	1750	0.25	4	10	600
07D101K	90	110	60	85	165				5	11	500
07D121K	108	132	75	100	200				6	12	420
07D151K	135	165	95	125	250				7	13	330
07D181K	162	198	115	150	300				8	14	280
07D201K	185	225	130	170	330				9	15	250
07D221K	198	242	140	180	360				10	16	230
07D241K	216	264	150	200	395				11	17	210
07D271K	243	297	175	225	455				14	20	200
07D301K	270	330	190	250	500				15	21	190
07D331K	197	363	210	270	545				17	23	180
07D361K	324	396	230	300	595				18	26	170
07D391K	351	429	250	320	650				19	28	160
07D431K	387	473	275	350	710				21	31	150
07D471K	423	517	300	385	775				24	35	140
07D511K	459	561	320	410	845				25	38	130
07D561K	504	616	350	450	930	27	41	120			
07D621K	558	682	385	505	1025	30	45	110			
07D681K	612	748	420	560	1120	33	48	100			
07D751K	675	825	460	615	1240	35	50	90			
07D781K	702	858	485	640	1290	38	51	85			
07D821K	738	902	510	670	1355	42	52	80			

VARISTOR 10D	Varistor Voltage (@1.0mA)		Max. Continuous Operation Voltage		Max. Clamping Voltage	Max. Peak Current (@8/20us 1time)		Rated Wattage	Maximum Energy (10/1000us 1time)		Max Capacitance (Reference)
	Min	Max	ACrms	DC	Vc	Standard	High surge		Standard	High surge	@1KHz1.0V
Specs	Volts	Volts	Volts	Volts	Volts	Amps	Amps	Watts	Joules	Joules	PF
10D180K	14.4	21.6	11	14	38	500	1000	0.05	1.5	3	5600
10D220K	18.7	26	14	18	43				2	5	4500
10D270K	23	31.1	17	22	53				2.5	6	3700
10D330K	29.5	36.5	20	26	65				3	7	3000
10D390K	35	43	25	31	77				3	9	2600
10D470K	42	52	30	38	93				4.5	11	2100
10D560K	50	62	35	45	110				5.5	13	1800
10D680K	61	75	40	56	135				6.5	15	1500
10D820K	74	90	50	65	135				8	17	1200
10D101K	90	110	60	85	165				10	18	1000
10D121K	108	132	75	100	200				12	21	830
10D151K	135	165	95	125	250				15	25	670
10D181K	162	198	115	150	300				18	28	560
10D201K	185	225	130	170	340				20	31	500
10D221K	198	242	140	180	360	21	33	480			
10D241K	216	264	150	200	395	24	36	450			
10D271K	243	297	175	225	455	28	40	420			
10D301K	270	330	195	250	505	33	44	380			
10D331K	297	363	210	270	545	34	48	350			
10D361K	324	396	230	300	595	36	52	320			
10D391K	351	429	250	320	650	40	58	310			
10D431K	387	473	275	350	710	42	62	300			
10D471K	423	517	300	385	775	47	71	280			
10D511K	459	591	320	410	845	52	72	260			
10D561K	504	616	350	450	930	57	82	250			
10D621K	558	682	385	505	1025	61	87	230			
10D681K	612	748	420	560	1120	70	92	210			
10D751K	675	825	460	615	1240	77	105	190			
10D781K	702	858	485	640	1290	80	110	180			
10D821K	738	902	510	670	1355	84	120	170			
10D911K	819	1001	550	745	1500	88	127	150			
10D102K	900	1100	625	825	1650	90	135	130			
10D112K	990	1210	680	895	1815	92	140	120			

VARISTOR 14D	Varistor Voltage (@1.0mA)		Max. Continuous Operation Voltage		Max. Clamping Voltage	Max. Peak Current (@8/20us 1time)		Rated Wattage	Maximum Energy (10/1000us 1time)		Max Capacitance (Reference)
	Min	Max	ACrms	DC	Vc	Standard	High surge		Standard	High surge	@1KHz1.0V
Specs	Volts	Volts	Volts	Volts	Volts	Amps	Amps	Watts	Joules	Joules	PF
14D180K	14.4	21.6	11	14	36	1000	2000	0.1	4	7	11100
14D220K	18.7	26	14	18	43				5	8	9100
14D270K	23	31.1	17	22	53				5	10	7400
14D330K	29.5	36.5	20	26	65				6	12	6100
14D390K	35	42	25	31	77				6	13	5100
14D470K	42	52	30	38	93				9	17	4300
14D560K	50	62	35	45	110				10	20	3600
14D680K	61	75	40	56	135				13	24	2900
14D820K	74	90	50	65	135				15	27	2400
14D101K	90	110	60	85	165				20	33	2000
14D121K	108	132	75	100	200	22	40	1700			
14D151K	135	165	95	125	250	30	47	1300			
14D181K	162	198	115	150	300	35	55	1100			
14D201K	185	225	130	170	340	43	60	1000			
14D221K	198	242	140	180	360	42	65	900			
14D241K	216	264	150	200	395	48	72	830			
14D271K	243	297	175	225	455	57	84	740			
14D301K	270	330	195	250	505	62	90	670			
14D331K	297	363	210	275	545	69	104	610			
14D361K	324	396	230	300	595	73	108	560			
14D391K	351	429	250	320	650	75	118	510			
14D431K	387	493	275	350	710	85	124	490			
14D471K	423	517	300	385	775	95	141	480			
14D511K	459	591	320	415	845	102	155	460			
14D561K	504	616	350	460	930	115	168	440			
14D621K	558	682	385	505	1020	127	196	420			
14D681K	612	748	420	560	1120	135	200	400			
14D751K	675	825	460	615	1240	143	210	380			
14D781K	702	858	485	640	1290	150	215	370			
14D821K	738	902	510	670	1355	160	235	360			
14D911K	819	1001	550	745	1500	180	266	340			
14D102K	900	1100	625	825	1650	200	292	320			
14D112K	990	1210	680	895	1815	210	310	300			
14D122K	1080	1320	750	990	1980	230	315	290			
14D142K	1278	1562	880	1140	2310	240	331	280			
14D162K	1458	1782	1000	1280	2640	245	333	270			
14D182K	1620	1980	1100	1465	2970	250	335	260			

VARISTOR 20D	Varistor Voltage (@1.0mA)		Max. Continuous Operation Voltage		Max. Clamping Voltage	Max. Peak Current (@8/20us 1time)		Rated Wattage	Maximum Energy (10/1000us 1time)		Max Capacitance (Reference)
	Min	Max	ACrms	DC	Vc	Standard	High surge		Standard	High surge	@1KHz1.0V
Specs	Volts	Volts	Volts	Volts	Volts	Amps	Amps	Watts	Joules	Joules	PF
20D180K	14.4	21.6	11	14	38	2000	3000	0.2	11	13	19000
20D220K	18.4	26	14	18	43				14	16	15000
20D270K	23	31.1	17	22	53				15	19	12000
20D330K	29.5	36.5	20	26	65				20	24	10000
20D390K	35	43	25	31	77				20	28	8500
20D470K	42	52	30	38	93				23	34	7400
20D560K	50	62	35	45	110				25	44	6500
20D680K	61	75	40	56	135				27	49	5800
20D820K	74	90	50	65	135				28	56	4900
20D101K	90	110	60	85	165				30	70	4000
20D121K	108	132	75	100	200	33	85	3300			
20D151K	135	165	95	125	250	45	106	2700			
20D181K	162	198	115	150	300	52	110	2200			
20D201K	185	225	130	170	340	80	117	2000			
20D221K	198	242	140	180	360	75	140	1800			
20D241K	216	264	150	200	395	80	162	1650			
20D271K	243	297	175	225	455	90	185	1500			
20D301K	270	330	190	250	505	100	206	1300			
20D331K	297	363	210	275	545	110	225	1200			
20D361K	324	396	230	300	595	122	236	1100			
20D391K	351	429	250	320	650	158	255	1000			
20D431K	387	473	275	350	710	166	263	930			
20D471K	423	517	300	385	775	195	283	850			
20D511K	459	591	320	415	845	200	300	780			
20D561K	504	616	350	450	930	220	325	710			
20D621K	558	682	385	505	1025	245	355	650			
20D681K	612	748	420	560	1120	270	385	600			
20D751K	675	825	460	615	1240	286	410	530			
20D781K	702	858	485	640	1290	295	430	510			
20D821K	738	902	510	670	1355	300	460	500			
20D911K	819	1001	550	745	1500	310	500	440			
20D102K	900	1100	625	825	1650	322	544	400			
20D112K	990	1210	680	895	1815	335	600	360			
20D122K	1080	1320	750	990	1980	350	630	320			
20D142K	1260	1540	880	1140	2310	365	675	280			
20D162K	1440	1760	1000	1280	2640	370	720	250			
20D182K	1620	1980	1100	1465	2970	390	765	220			



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