

Description:

The CV+ Series of transient surge suppressors is an extended version of CV Series of disc-shaped varistors. The CV+ Series consists of 7 mm, 10 mm, 14 mm, 20 mm and 23 mm sized varistors of extremely high current and energy capabilities.

They provide the increased level of protection necessary for the transients expected in telecommunication and AC power networks. AC operating voltage of these varistors ranges from 60V to 680V.



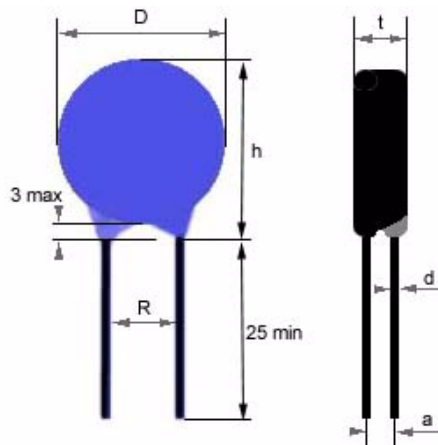
- Features:**
- AC operating voltage (Vrms) from 60V to 680V
 - DC operating voltage (Vdc) from 85V to 895V
 - Broad range of current and energy handling capability
 - +85°C continuous operating temperature
 - 5 model sizes available from 7mm to 23mm
 - Sizes 7mm, 10mm, 14mm, 20mm
 - UL, CAC, CEDD approved

General Technical Data		
Climatic Category	40 / 85 / 56	In accordance with IEC 60068-1
Operating Temperature	-40°C to +85°C	In accordance with CECC 42 000
Storage Temperature Range	-40°C to +125°C	
Threshold Voltage Temperature Coefficient	≤0.05% / °C	
Isolation Voltage Capability	> 2.5kV	In accordance with CECC 42 000
Response Time	< 25 ns	
Insulation Resistance	> 1 Gohm	In accordance with CECC 42 000

How to Order

SEI Type		Lead Style		Vrms	Tolerance	Disc Diameter	Packaging	Specials	
CV+		1		140	K	14	B	XX	
Type	Description	Lead Style	Description		Code	Tolerance	Size (mm)	Code	Description
CV+	Medium Voltage Leaded Varistor	1	Straight		K	10%	7	B	Bulk
					L	15%	10	R	Tape and Reel
					M	20%	14	A	Ammo
					S	Special	20		
							23		

Standard Packaging Options / Quantities										
Series	Voltage	7mm		10mm		14mm		20mm		23mm
	Range (Vrms)	Reel	Bulk	Reel	Bulk	Reel	Bulk	Reel	Bulk	Bulk
CV+	60 - 75	1,500	1,500	1,300	600	700	500	600	300	N/A
	95	1,500	1,000	1,300	600	600	500	600	300	N/A
	115 - 130	1,300	1,000	1,000	500	600	500	500	300	250
	140 - 150	1,200	1,000	1,000	500	600	500	500	300	250
	175	1,200	1,000	1,000	500	500	500	500	300	250
	230	1,000	1,000	1,000	500	500	300	400	300	150
	250 - 275	1,000	1,000	800	500	400	300	400	300	150
	300	900	1,000	800	500	400	300	400	200	150
	320	N/A	N/A	800	500	400	300	300	200	150
	385	N/A	N/A	700	400	400	300	300	200	150
	420	N/A	N/A	700	400	300	300	300	200	150
	460 - 680	N/A	N/A	600	400	300	300	300	200	150



Device Ratings and Dimensions														
Part Number	V_{RMS} (volts)	V_{DC} (volts)	V_N (volts)	V_C (volts)	I_C (amps)	W_{MAX} (joules)	P_{MAX} (watts)	I_P (amps)	C_{TYP} (pF)	D_{MAX} (mm)	t_{MAX} (mm)	R (mm)	d (mm)	h_{MAX} (mm)
CV+ 60 K 07	60	85	100	165	10	9	0.25	1,750	680	9	3.5	5	0.6	11.5
CV+ 75 K 07	75	100	120	200	10	11	0.25	1,750	550	9	3.6	5	0.6	11.5
CV+ 95 K 07	95	125	150	250	10	14	0.25	1,750	440	9	3.8	5	0.6	11.5
CV+ 115 K 07	115	150	180	300	10	16	0.25	1,750	360	9	4.0	5	0.6	11.5
CV+ 130 K 07	130	170	205	340	10	19	0.25	1,750	360	9	4.0	5	0.6	11.5
CV+ 140 K 07	140	180	220	360	10	22	0.25	1,750	300	9	4.1	5	0.6	11.5
CV+ 150 K 07	150	200	240	395	10	23	0.25	1,750	280	9	4.3	5	0.6	11.5
CV+ 175 K 07	175	225	270	455	10	26	0.25	1,750	250	9	4.8	5	0.6	11.5
CV+ 230 K 07	230	300	360	595	10	35	0.25	1,750	190	9	4.8	5	0.6	11.5
CV+ 250 K 07	250	320	390	650	10	38	0.25	1,750	180	9	5.0	5	0.6	11.5
CV+ 275 K 07	275	350	430	710	10	44	0.25	1,750	160	9	5.6	5	0.6	11.5
CV+ 300 K 07	300	385	470	775	10	46	0.25	1,750	150	9	5.8	5	0.6	11.5

Device Ratings and Dimensions

Part Number	V _{RMS} (volts)	V _{DC} (volts)	V _N (volts)	V _C (volts)	I _C (amps)	W _{MAX} (joules)	P _{MAX} (watts)	I _P (amps)	C _{TYP} (pF)	D _{MAX} (mm)	t _{MAX} (mm)	R (mm)	d (mm)	h _{MAX} (mm)
CV+ 60 K 10	60	85	100	165	25	18	0.4	3,500	1,200	12.5	4.1	7.5	0.8	15
CV+ 75 K 10	75	100	120	200	25	24	0.4	3,500	950	12.5	4.2	7.5	0.8	15
CV+ 95 K 10	95	125	150	250	25	28	0.4	3,500	750	12.5	4.3	7.5	0.8	15
CV+ 115 K 10	115	150	180	300	25	34	0.4	3,500	650	12.5	4.3	7.5	0.8	15
CV+ 130 K 10	130	170	205	340	25	38	0.4	3,500	580	12.5	4.5	7.5	0.8	15
CV+ 140 K 10	140	180	220	360	25	42	0.4	3,500	540	12.5	4.6	7.5	0.8	15
CV+ 150 K 10	150	200	240	395	25	46	0.4	3,500	510	12.5	4.6	7.5	0.8	15
CV+ 175 K 10	175	225	270	455	25	53	0.4	3,500	440	12.5	4.9	7.5	0.8	15
CV+ 230 K 10	230	300	360	595	25	71	0.4	3,500	350	12.5	5.4	7.5	0.8	15
CV+ 250 K 10	250	320	390	650	25	77	0.4	3,500	320	12.5	5.6	7.5	0.8	15
CV+ 275 K 10	275	350	430	710	25	88	0.4	3,500	300	12.5	5.8	7.5	0.8	15
CV+ 300 K 10	300	385	470	775	25	93	0.4	3,500	280	12.5	6.1	7.5	0.8	15
CV+ 320 K 10	320	420	510	840	25	104	0.4	3,500	260	12.5	5.9	7.5	0.8	15
CV+ 385 K 10	385	505	620	1,025	25	106	0.4	3,500	230	12.5	6.4	7.5	0.8	15
CV+ 420 K 10	420	560	680	1,120	25	110	0.4	3,500	210	12.5	7.3	7.5	0.8	15
CV+ 460 K 10	460	615	750	1,240	25	120	0.4	3,500	200	12.5	7.8	7.5	0.8	15
CV+ 510 K 10	510	670	820	1,355	25	131	0.4	3,500	180	12.5	8.2	7.5	0.8	15
CV+ 550 K 10	550	745	910	1,500	25	153	0.4	3,500	170	12.5	8.8	7.5	0.8	16
CV+ 575 K 10	575	750	950	1,570	25	155	0.4	3,500	165	12.5	8.9	7.5	0.8	16
CV+ 625 K 10	625	825	1,000	1,650	25	159	0.4	3,500	160	12.5	9.1	7.5	0.8	16
CV+ 680 K 10	680	895	1,100	1,815	25	171	0.4	3,500	150	12.5	9.7	7.5	0.8	16
CV+ 60 K 14	60	85	100	165	50	38	0.6	6,000	2,200	16.5	4.2	7.5	0.8	20
CV+ 75 K 14	75	100	120	200	50	46	0.6	6,000	1,800	16.5	4.2	7.5	0.8	20
CV+ 95 K 14	95	125	150	250	50	68	0.6	6,000	1,400	16.5	4.3	7.5	0.8	20
CV+ 115 K 14	115	150	180	300	50	71	0.6	6,000	1,200	16.5	4.4	7.5	0.8	20
CV+ 130 K 14	130	170	205	340	50	77	0.6	6,000	1,050	16.5	4.6	7.5	0.8	20
CV+ 140 K 14	140	180	220	360	50	75	0.6	6,000	980	16.5	4.7	7.5	0.8	20
CV+ 150 K 14	150	200	240	395	50	92	0.6	6,000	900	16.5	4.8	7.5	0.8	20
CV+ 175 K 14	175	225	270	455	50	108	0.6	6,000	800	16.5	4.9	7.5	0.8	20
CV+ 230 K 14	230	300	360	595	50	143	0.6	6,000	620	16.5	5.5	7.5	0.8	20
CV+ 250 K 14	250	320	390	650	50	154	0.6	6,000	580	16.5	5.7	7.5	0.8	20
CV+ 275 K 14	275	350	430	710	50	170	0.6	6,000	530	16.5	5.9	7.5	0.8	20
CV+ 300 K 14	300	385	470	775	50	192	0.6	6,000	490	16.5	6.1	7.5	0.8	20
CV+ 320 K 14	320	420	510	840	50	209	0.6	6,000	460	16.5	6.5	7.5	0.8	20
CV+ 385 K 14	385	505	620	1,025	50	219	0.6	6,000	390	16.5	6.9	7.5	0.8	20
CV+ 420 K 14	420	560	680	1,120	50	230	0.6	6,000	370	16.5	7.4	7.5	0.8	20
CV+ 460 K 14	460	615	750	1,240	50	250	0.6	6,000	340	16.5	7.8	7.5	0.8	20
CV+ 510 K 14	510	670	820	1,355	50	258	0.6	6,000	310	16.5	8.2	7.5	0.8	20
CV+ 550 K 14	550	745	910	1,500	50	300	0.6	6,000	290	16.5	8.8	7.5	0.8	20
CV+ 575 K 14	575	750	950	1,570	50	305	0.6	6,000	280	16.5	8.9	7.5	0.8	20
CV+ 625 K 14	625	825	1,000	1,650	50	315	0.6	6,000	270	16.5	9.2	7.5	0.8	20
CV+ 680 K 14	680	895	1,100	1,815	50	340	0.6	6,000	250	16.5	9.8	7.5	0.8	20

Device Ratings and Dimensions

Part Number	V _{RMS} (volts)	V _{DC} (volts)	V _N (volts)	V _C (volts)	I _C (amps)	W _{MAX} (joules)	P _{MAX} (watts)	I _P (amps)	C _{TYP} (pF)	D _{MAX} (mm)	t _{MAX} (mm)	R (mm)	d (mm)	h _{MAX} (mm)
CV 60 K 20	60	85	100	165	100	77	1	12,000	4,100	22.5	4.6	10	1	26
CV 75 K 20	75	100	120	200	100	88	1	12,000	3,300	22.5	4.6	10	1	26
CV 95 K 20	95	125	150	250	100	116	1	12,000	2,600	22.5	4.6	10	1	26
CV 115 K 20	115	150	180	300	100	128	1	12,000	2,100	22.5	4.8	10	1	26
CV 130 K 20	130	170	205	340	100	154	1	12,000	1,900	22.5	5.0	10	1	26
CV 140 K 20	140	180	220	360	100	170	1	12,000	1,800	22.5	5.1	10	1	26
CV 150 K 20	150	200	240	395	100	185	1	12,000	1,600	22.5	5.2	10	1	26
CV 175 K 20	175	225	270	455	100	210	1	12,000	1,400	22.5	5.3	10	1	26
CV 230 K 20	230	300	360	595	100	280	1	12,000	1,100	22.5	5.9	10	1	26
CV 250 K 20	250	320	390	650	100	300	1	12,000	1,000	22.5	6.1	10	1	26
CV 275 K 20	275	350	430	710	100	330	1	12,000	900	22.5	6.3	10	1	26
CV 300 K 20	300	385	470	775	100	380	1	12,000	850	22.5	6.6	10	1	26
CV 320 K 20	320	420	510	840	100	420	1	12,000	800	22.5	6.8	10	1	26
CV 385 K 20	385	505	620	1,025	100	430	1	12,000	650	22.5	7.5	10	1	26
CV 420 K 20	420	560	680	1,120	100	460	1	12,000	620	22.5	7.8	10	1	26
CV 460 K 20	460	615	750	1,240	100	500	1	12,000	560	22.5	8.2	10	1	26
CV 510 K 20	510	670	820	1,355	100	520	1	12,000	510	22.5	8.7	10	1	26
CV 550 K 20	550	745	910	1,500	100	560	1	12,000	480	22.5	9.2	10	1	26
CV 575 K 20	575	750	950	1,570	100	585	1	12,000	460	22.5	9.4	10	1	26
CV 625 K 20	625	825	1,000	1,650	100	640	1	12,000	420	22.5	9.7	10	1	26
CV 680 K 20	680	895	1,100	1,815	100	690	1	12,000	390	22.5	10.2	10	1	26
CV 130 K 23	130	170	205	340	100	172	1	15,000	3,500	25	5.0	10	1	27
CV 140 K 23	140	180	220	360	100	190	1	15,000	3,200	25	5.1	10	1	27
CV 150 K 23	150	200	240	395	100	207	1	15,000	2,900	25	5.2	10	1	27
CV 175 K 23	175	225	270	455	100	235	1	15,000	2,500	25	5.3	10	1	27
CV 230 K 23	230	300	360	595	100	313	1	15,000	2,200	25	5.9	10	1	27
CV 250 K 23	250	320	390	650	100	336	1	15,000	1,900	25	6.1	10	1	27
CV 275 K 23	275	350	430	710	100	370	1	15,000	1,600	25	6.3	10	1	27
CV 300 K 23	300	385	470	775	100	426	1	15,000	1,300	25	6.6	10	1	27
CV 320 K 23	320	420	510	840	100	470	1	15,000	1,100	25	6.8	10	1	29
CV 385 K 23	385	505	620	1,025	100	480	1	15,000	1,000	25	7.5	10	1	29
CV 420 K 23	420	560	680	1,120	100	515	1	15,000	950	25	7.8	10	1	29
CV 460 K 23	460	615	750	1,240	100	560	1	15,000	900	25	8.2	10	1	29
CV 510 K 23	510	670	820	1,355	100	582	1	15,000	650	25	8.7	10	1	29
CV 550 K 23	550	745	910	1,500	100	627	1	15,000	800	25	9.2	10	1	29
CV 575 K 23	575	750	950	1,570	100	650	1	15,000	720	25	9.4	10	1	29
CV 625 K 23	625	825	1,000	1,650	100	690	1	15,000	680	25	9.7	10	1	29
CV 680 K 23	680	895	1,100	1,815	100	745	1	15,000	620	25	10.2	10	1	29