



Low Voltage Series

CKE Part Number	Marking On Part	Max Applied Contin. Volts		Varistor Voltage @ 1 ma DC	Energy 2ms	Max. Clamping Voltage 8/20 $\mu$ s		Peak Current	Typical Capacitance	Dimensions (mm) - Figure 64			
		AC <sub>RMS</sub>	DC			Volts	Amps			Amps	pF	$\pm$ 1 mm	
				DC Volts	Joules			D-Max	T			W	d
Z5L180	180	11	14	18(16-20)	0.3	40	1	100	1600	7.5	3.5	5.0	0.6
Z5L220	220	14	18	22(20-24)	0.4	48	1	100	1300	7.5	3.5	5.0	0.6
Z5L270	270	17	22	27(24-30)	0.5	60	1	100	1050	7.5	3.5	5.0	0.6
Z5L330	330	20	26	33(30-36)	0.6	73	1	100	900	7.5	3.5	5.0	0.6
Z5L390	390	25	31	39(35-43)	0.8	86	1	100	500	7.5	3.5	5.0	0.6
Z5L470	470	30	38	47(42-52)	1.0	104	1	100	450	7.5	3.5	5.0	0.6
Z5L560	560	35	45	56(50-62)	1.0	123	1	100	400	7.5	3.5	5.0	0.6
Z5L680	680	40	56	68(61-75)	1.2	150	1	100	350	7.5	3.5	5.0	0.6
Z5L820	820	50	65	82(74-90)	1.7	145	5	400	250	7.5	3.5	5.0	0.6
Z5L101	101	60	85	100(90-110)	2.0	175	5	400	200	7.0	3.7	5.0	0.6
Z5L121	121	75	100	120(108-132)	2.5	210	5	400	170	7.0	3.8	5.0	0.6
Z5L151	151	95	125	150(135-165)	3.0	260	5	400	140	7.0	4.0	5.0	0.6
Z5L181	181	115	153	180(162-198)	3.5	300	5	400	100	7.0	4.1	5.0	0.6
Z5L201	201	130	170	200(185-225)	4.0	355	5	400	80	7.0	4.2	5.0	0.6
Z5L221	221	140	180	220(198-242)	4.5	380	5	400	70	7.0	4.3	5.0	0.6
Z5L241	241	150	200	240(216-264)	5.0	415	5	400	70	7.0	4.4	5.0	0.6
Z5L271	271	175	225	270(243-297)	6.0	475	5	400	60	7.0	4.6	5.0	0.6
Z5L331	331	210	275	330(297-363)	6.5	580	5	400	55	7.0	4.9	5.0	0.6
Z5L361	361	230	300	360(324-396)	7.5	620	5	400	50	7.0	5.1	5.0	0.6
Z5L391	391	250	320	390(351-429)	8.0	675	5	400	50	7.0	5.4	5.0	0.6
Z5L431	431	275	350	430(387-473)	9.0	745	5	400	45	7.0	5.7	5.0	0.6
Z5L471	471	300	385	470(423-517)	10.0	810	5	400	40	7.0	6.0	5.0	0.6
Z7L180	7L180	11	14	18(16-20)	0.8	36	2.5	250	3500	9.0	3.5	5.0	0.6
Z7L220	7L220	14	18	22(20-24)	0.9	43	2.5	250	2800	9.0	3.6	5.0	0.6
Z7L270	7L270	17	22	27(24-30)	1.0	53	2.5	250	2000	9.0	3.7	5.0	0.6
Z7L330	7L330	20	26	33(30-36)	1.2	65	2.5	250	1500	9.0	3.9	5.0	0.6
Z7L390	7L390	25	31	39(35-43)	1.5	77	2.5	250	1350	9.0	3.8	5.0	0.6
Z7L470	7L470	30	38	47(42-52)	1.8	90	2.5	250	1150	9.0	3.9	5.0	0.6
Z7L560	7L560	35	45	56(50-62)	2.3	105	2.5	250	950	9.0	4.0	5.0	0.6
Z7L680	7L680	40	56	68(61-75)	3.0	125	2.5	250	700	9.0	4.2	5.0	0.6
Z7L820	7L820	50	65	82(74-90)	4.0	135	10.0	1200	550	9.0	3.6	5.0	0.6
Z7L101	7L101	60	85	100(90-110)	5.0	165	10.0	1200	500	9.0	3.7	5.0	0.6
Z7L121	7L121	75	100	120(108-132)	6.0	200	10.0	1200	450	9.0	3.8	5.0	0.6
Z7L151	7L151	95	125	150(135-165)	8.0	250	10.0	1200	350	9.0	4.0	5.0	0.6
Z7L181	7L181	115	153	180(162-198)	10.0	300	10.0	1200	220	9.0	4.1	5.0	0.6
Z10L180	10L180	11	14	18(16-20)	1.5	36	5	500	7500	13.5	3.6	7.5	0.8
Z10L220	10L220	14	18	22(20-24)	2.0	43	5	500	6000	13.5	3.7	7.5	0.8
Z10L270	10L270	17	22	27(24-30)	2.5	53	5	500	4000	13.5	3.8	7.5	0.8
Z10L330	10L330	20	26	33(30-36)	3.0	65	5	500	3000	13.5	4.0	7.5	0.8
Z10L390	10L390	25	31	39(35-43)	3.5	77	5	500	2600	13.5	4.1	7.5	0.8
Z10L470	10L470	30	38	47(42-52)	4.5	90	5	500	2200	13.5	4.0	7.5	0.8
Z10L560	10L560	35	45	56(50-62)	5.5	105	5	500	1800	13.5	4.1	7.5	0.8
Z10L680	10L680	40	56	68(61-75)	6.5	125	5	500	1300	13.5	4.3	7.5	0.8
Z10L820	10L820	50	65	82(74-90)	8.0	135	25	2500	1800	13.5	4.0	7.5	0.8
Z10L101	10L101	60	85	100(90-110)	10.0	165	25	2500	1400	13.5	4.1	7.5	0.8
Z10L121	10L121	75	100	120(108-132)	12.0	200	25	2500	1100	13.5	4.2	7.5	0.8
Z10L151	10L151	95	125	150(135-165)	16.0	250	25	2500	900	13.5	4.5	7.5	0.8
Z10L181	10L181	115	153	180(162-198)	18.0	300	25	2500	550	13.5	4.5	7.5	0.8
Z15L180	Z15L180	11	14	18(16-20)	3.5	36	10	1000	18000	17.0	3.6	7.5	0.8
Z15L220	Z15L220	14	18	22(20-24)	4.0	43	10	1000	15000	17.0	3.7	7.5	0.8
Z15L270	Z15L270	17	22	27(24-30)	5.0	53	10	1000	10000	17.0	3.8	7.5	0.8
Z15L330	Z15L330	20	26	33(30-36)	6.0	65	10	1000	7500	17.0	4.0	7.5	0.8
Z15L390	Z15L390	25	31	39(35-43)	7.2	77	10	1000	6500	17.0	4.1	7.5	0.8
Z15L470	Z15L470	30	38	47(42-52)	8.8	90	10	1000	5500	17.0	4.0	7.5	0.8
Z15L560	Z15L560	35	45	56(50-62)	10.0	105	10	1000	4500	17.0	4.1	7.5	0.8
Z15L680	Z15L680	40	56	68(61-75)	13.0	125	10	1000	3300	17.0	4.3	7.5	0.8
Z15L820	Z15L820	50	65	82(74-90)	14.5	135	50	4500	2900	17.0	4.0	7.5	0.8
Z15L101	Z15L101	60	85	100(90-110)	20.0	165	50	4500	2400	17.0	4.1	7.5	0.8
Z15L121	Z15L121	75	100	120(108-132)	22.0	200	50	4500	1900	17.0	4.2	7.5	0.8
Z15L151	Z15L151	95	125	150(135-165)	30.0	250	50	4500	1500	17.0	4.5	7.5	0.8
Z15L181	Z15L181	115	153	180(162-198)	35.0	300	50	4500	1200	17.0	4.5	7.5	0.8
Z21L180	Z21L180	11	14	18(16-20)	10.0	36	20	2000	18000	23.0	4.1	10.0	1.0
Z21L220	Z21L220	14	18	22(20-24)	13.0	43	20	2000	15000	23.0	4.2	10.0	1.0
Z21L270	Z21L270	17	22	27(24-30)	15.0	53	20	2000	10000	23.0	4.3	10.0	1.0
Z21L330	Z21L330	20	26	33(30-36)	20.0	65	20	2000	7500	23.0	4.5	10.0	1.0
Z21L390	Z21L390	25	31	39(35-43)	24.0	77	20	2000	6500	23.0	4.5	10.0	1.0
Z21L470	Z21L470	30	38	47(42-52)	30.0	90	20	2000	5500	23.0	4.6	10.0	1.0
Z21L560	Z21L560	35	45	56(50-62)	35.0	105	20	2000	4500	23.0	4.7	10.0	1.0
Z21L680	Z21L680	40	56	68(61-75)	40.0	125	20	2000	3300	23.0	4.8	10.0	1.0
Z21L820	Z21L820	50	65	82(74-90)	27.0	135	100	6500	2900	23.0	4.5	10.0	1.0
Z21L101	Z21L101	60	85	100(90-110)	30.0	165	100	6500	2400	23.0	4.6	10.0	1.0
Z21L121	Z21L121	75	100	120(108-132)	40.0	200	100	6500	1190	23.0	4.7	10.0	1.0
Z21L151	Z21L151	95	125	150(135-165)	50.0	250	100	6500	1500	23.0	4.9	10.0	1.0
Z21L181	Z21L181	115	153	180(162-198)	60.0	300	100	6500	1200	23.0	4.9	10.0	1.0

Radial leaded MOVs having the Underwriters Laboratory Recognized Component Mark, conform to UL 1414, UL1449 second addition and CSA class 222101. CKE's UL recognized parts are listed on file #E905101 (M)  
 Maximum Power Dissipation: 5 mm-0.1 watt; 7 mm-0.25 watt; 10 mm-0.4 watt; 14 mm-0.6 watt, 20 mm-1 watt  
 Typical response time is less than 15 nanoseconds.