

**"ZNR" Transient/Surge Absorbers
General Purpose**

ERZ-C(D) Series

Part No.	Maximum Allowable Voltage		Varistor Voltage* (V)	Clamping Voltage @ Test Current (8/20 μs)		Maximum Energy (J)		Maximum Peak Current (8/20 μs)	
	ACrms(V)	DC(V)		V _{CL} (V)	I _p (A)	10/1000μs	2 ms	1 times (A)	2 times (A)
ERZC05DK470 ERZC07DK470 ERZC10DK470 ERZC14DK470 ERZC20DK470	30	38	47(42-52)	104	1	1.1	1.0	100	50
93				2.5	2.5	1.8	250	125	
93				5	5.6	4.5	500	250	
93				10	10	8.5	1000	500	
93				20	33	30	2000	1000	
ERZC05DK580 ERZC07DK580 ERZC10DK580 ERZC14DK580 ERZC20DK580	35	45	58(50-82)	123	1	1.3	1.0	100	50
110				2.5	3.1	2.2	250	125	
110				5	7.0	5.5	500	250	
110				10	11	10	1000	500	
110				20	41	35	2000	1000	
ERZC06DK680 ERZC07DK680 ERZC10DK680 ERZC14DK680 ERZC20DK680	40	55	68(61-75)	150	1	1.8	1.2	100	50
135				2.5	3.5	2.5	250	125	
135				5	8.2	5.5	500	250	
135				10	14	12	1000	500	
135				20	46	40	2000	1000	
ERZC03DK820 ERZC05DK820 ERZC07DK820 ERZC10DK820 ERZC14DK820 ERZC20DK820	50	65	82(74-90)	145	2.5	—	0.88	200	100
145				5	2.5	1.7	400	200	
135				10	5.5	3.5	1200	600	
135				25	12	8.0	2500	1250	
135				50	22	14	4500	2500	
135				100	38	27	8500	4000	
ERZC05DK101 ERZC07DK101 ERZC10DK101 ERZC14DK101 ERZC20DK101	80	85	100(90-110)	175	5	3.0	2.0	400	200
165				10	5.5	4.0	1200	600	
165				25	15	10	2500	1250	
165				50	28	18	4500	2500	
165				100	45	30	8500	4000	
ERZC03DK121 ERZC05DK121 ERZC07DK121 ERZC10DK121 ERZC14DK121 ERZC20DK121	75	100	120(108-132)	210	2.5	—	1.0	200	100
210				5	4.0	2.5	400	200	
200				10	7.8	5.0	1200	600	
200				25	18	12	2500	1250	
200				50	32	20	4500	2500	
200				100	55	40	8500	4000	
ERZC05DK151 ERZC07DK151 ERZC10DK151 ERZC14DK151 ERZC20DK151	95	125	150(135-165)	260	5	4.8	3.0	400	200
260				10	9.7	6.5	1200	600	
260				25	22	18	2500	1250	
260				50	40	25	4500	2500	
260				100	70	50	8500	4000	
ERZC05DK201 ERZC07DK201 ERZC10DK201 ERZC14DK201 ERZC20DK201	130	170	200(185-225)	355	5	6.5	4.0	400	200
340				10	13	10	1200	600	
340				25	30	20	2500	1250	
340				50	57	35	4500	2500	
340				100	95	70	8500	4000	
ERZC05DK221 ERZC07DK221 ERZC10DK221 ERZC14DK221 ERZC20DK221	140	180	220(198-242)	380	5	7.0	4.5	400	200
380				10	14	10	1200	600	
380				25	32	23	2500	1250	
380				50	60	40	4500	2500	
380				100	100	75	8500	4000	
ERZC03DK241 ERZC05DK241 ERZC07DK241 ERZC10DK241 ERZC14DK241 ERZC20DK241	150	200	240(216-264)	415	2.5	—	2.0	200	100
415				5	8.0	5.0	400	200	
395				10	15	10	1200	600	
395				25	35	25	2500	1250	
395				50	63	40	4500	2500	
395				100	108	80	8500	4000	
ERZC05DK271 ERZC07DK271 ERZC10DK271 ERZC14DK271 ERZC20DK271	175	225	270(247-303)	475	5	8.5	5.0	400	200
455				10	18	12	1200	600	
455				25	40	30	2500	1250	
455				50	70	50	4500	2500	
455				100	127	90	8500	4000	
ERZC05DK361 ERZC07DK361 ERZC10DK361 ERZC14DK361 ERZC20DK361	230	300	360(324-396)	620	5	10	7.5	400	200
595				10	26	15	1200	600	
595				25	47	35	2500	1250	
595				50	93	65	4500	2500	
595				100	163	120	8500	4000	
ERZC05DK391 ERZC07DK391 ERZC10DK391 ERZC14DK391 ERZC20DK391	280	320	390(351-429)	675	5	12	8.0	400	200
650				10	25	17	1200	600	
650				25	50	40	2500	1250	
650				50	100	70	4500	2500	
650				100	180	130	8500	4000	

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	ACrms(V)	DC(V)		V_{CA} (V)	I_p (A)	10/1000 μ s	2 ms	1 times (A)	2 times (A)
			(V)						
ERZC05DK431 ERZC07DK431 ERZC10DK431 ERZC14DK431 ERZC20DK431	275	350	430(387-473)	745	5	13	9.0	400	200
710				10	28	20	1200	500	
710				25	85	45	2500	1250	
710				50	115	75	4500	2500	
710				100	190	140	6500	4000	
ERZC05DK471 ERZC07DK471 ERZC10DK471 ERZC14DK471 ERZC20DK471	300	385	470(423-517)	810	5	15	10	400	200
775				10	30	20	1200	500	
775				25	70	45	2500	1250	
775				50	125	80	4500	2500	
775				100	220	150	6500	4000	
ERZC10DK821 ERZC14DK821 ERZC20DK821	385	505	620(558-682)	1025	25	70	45	2500	1250
1025				50	125	85	4500	2500	
1025				100	220	150	6500	4000	
ERZC10DK881 ERZC14DK881 ERZC20DK881	420	560	680(612-748)	1120	25	70	45	2500	1250
1120				50	130	90	4500	2500	
1120				100	230	160	6500	4000	
ERZC10DK751 ERZC14DK751 ERZC20DK751	460	615	750(675-825)	1240	25	75	50	2500	1250
1240				50	143	100	4500	2500	
1240				100	255	175	6500	4000	
ERZC10DK781 ERZC14DK781 ERZC20DK781	485	640	780(702-858)	1290	25	80	50	2500	1250
1290				50	148	105	4500	2500	
1290				100	265	180	6500	4000	
ERZC10DK821 ERZC14DK821 ERZC20DK821	510	670	820(738-902)	1355	25	85	55	2500	1250
1355				50	157	110	4500	2500	
1355				100	282	190	6500	4000	
ERZC10DK911 ERZC14DK911 ERZC20DK911	550	745	910(819-1001)	1500	25	93	80	2500	1250
1500				50	175	120	4500	2500	
1500				100	310	215	6500	4000	
ERZC10DK102 ERZC14DK102 ERZC20DK102	625	825	1000(900-1100)	1650	25	102	85	2500	1250
1650				50	190	130	4500	2500	
1650				100	342	230	6500	4000	
ERZC10DK112 ERZC14DK112 ERZC20DK112	680	895	1100(990-1210)	1815	25	115	70	2500	1250
1815				50	213	140	4500	2500	
1815				100	383	250	6500	4000	
ERZC14DK182 ERZC20DK182	1000	1465	1800(1820-1980)	2970	50	337	240	4500	2500
2970				100	625	400	6500	4000	

- Operating Temperature Range: 40 to 85 °C
- Storage Temperature Range: 40 to 125 °C
- * Varistor Voltage: 3 and 5 Series - $V_{0.1mA}$

Rated Power

7, 10, 14, 20 Series V_1 mA

Part No.	Rated Power (W)	Part No.	Rated Power (W)	Part No.	Rated Power (W)
ERZC03DK220-390	0.004	ERZC14DK180-680	0.1	ERZC07DK820-471	0.25
ERZC05DK180-680	0.01	ERZC20DK180-680	0.2	ERZC10DK820-112	0.4
ERZC07DK180-680	0.02	ERZC03DK820-241	0.04	ERZC14DK820-182	0.6
ERZC10DK180-680	0.05	ERZC05DK820-471	0.1	ERZC20DK820-182	1.0

UL and CSA Recognized

Related Standards

Standard No.	UL1414	UL1449	UL4970	CSA Class 2221 01
Title	Across-The-Line Components (Varistors)	Transient Voltage Surge Suppressors	Secondary Protectors for Communication Circuit	Accessories and Parts For Electronic Products • Varistor for Across-The-Line use as transient Protection on 120Vac nominal system
File No.	E82674 Vol. 5, 10	E86821 Vol. 1	E134178 Vol. 1	LR-92226