

Disk Varistors

Maximum ratings ($T_A = 85\text{ °C}$)

Type	Ordering code	Operating voltage		Surge current	Energy absorption	Power dissipation
		V_{RMS}	V_{DC}	i_{max} 8/20 μ s	W_{max} (2 ms)	P_{max}
		V	V	A	J	W
SIOV-S05K30	Q69X3426	30	38	100	0.9	0.01
SIOV-S07K30	Q69X3451	30	38	250	2.0	0.02
SIOV-S10K30	Q69X3015	30	38	500	4.4	0.05
SIOV-S14K30	Q69X3022	30	38	1000	9.0	0.10
SIOV-S20K30	Q69X3462	30	38	2000	26.0	0.20
SIOV-S05K35	Q69X3427	35	45	100	1.1	0.01
SIOV-S07K35	Q69X3452	35	45	250	2.5	0.02
SIOV-S10K35	Q69X3016	35	45	500	5.4	0.05
SIOV-S14K35	Q69X3023	35	45	1000	10.0	0.10
SIOV-S20K35	Q69X3463	35	45	2000	33.0	0.20
SIOV-S05K40	Q69X3428	40	56	100	1.3	0.01
SIOV-S07K40	Q69X3453	40	56	250	3.0	0.02
SIOV-S10K40	Q69X3017	40	56	500	6.4	0.05
SIOV-S14K40	Q69X3024	40	56	1000	13.0	0.10
SIOV-S20K40	Q69X3464	40	56	2000	37.0	0.20
SIOV-S05K50	Q69X3429	50	65	400	1.8	0.10
SIOV-S07K50	Q69X3454	50	65	1200	4.2	0.25
SIOV-S10K50	Q69X3047	50	65	2500	8.4	0.40
SIOV-S14K50	Q69X3135	50	65	4500	15.0	0.60
SIOV-S20K50	Q69X3465	50	65	6500	27.0	1.00
SIOV-S05K60	Q69X3025	60	85	400	2.2	0.10
SIOV-S07K60	Q69X3036	60	85	1200	4.8	0.25
SIOV-S07S60AGS2 ¹⁾	Q69X3815	60	85	1200	4.8	0.25
SIOV-S10K60	Q69X3048	60	85	2500	10.0	0.40
SIOV-S14K60	Q69X3136	60	85	4500	17.0	0.60
SIOV-S20K60	Q69X3224	60	85	6500	33.0	1.00
SIOV-S05K75	Q69X3026	75	100	400	2.5	0.10
SIOV-S07K75	Q69X3037	75	100	1200	5.9	0.25
SIOV-S10K75	Q69X3049	75	100	2500	12.0	0.40
SIOV-S14K75	Q69X3137	75	100	4500	20.0	0.60
SIOV-S20K75	Q69X3225	75	100	6500	40.0	1.00

The dimensions of the varistors listed above are given on page 100.

1) Telecom varistor (only available on tape); see also page 54.

Characteristics ($T_A = 25\text{ }^\circ\text{C}$)

Varistor voltage V_V (1 mA) V	Tolerance ΔV_V (1 mA) %	Max. clamping voltage		Capacitance typ. C (1 kHz) pF	Derating curves Page	V// characteristic Page
		v V	i A			
47	K = ± 10	93	1.0	580	128	136
47	K = ± 10	93	2.5	1050	129	137
47	K = ± 10	93	5.0	2150	130	138
47	K = ± 10	93	10.0	3500	131	139
47	K = ± 10	93	20.0	7200	134	140
56	K = ± 10	110	1.0	460	128	136
56	K = ± 10	110	2.5	850	129	137
56	K = ± 10	110	5.0	1900	130	138
56	K = ± 10	110	10.0	3100	131	139
56	K = ± 10	110	20.0	6100	134	140
68	K = ± 10	135	1.0	400	128	136
68	K = ± 10	135	2.5	720	129	137
68	K = ± 10	135	5.0	1700	130	138
68	K = ± 10	135	10.0	2800	131	139
68	K = ± 10	135	20.0	5300	134	140
82	K = ± 10	135	5.0	300	128	136
82	K = ± 10	135	10.0	530	129	137
82	K = ± 10	135	25.0	950	130	138
82	K = ± 10	135	50.0	1800	132	139
82	K = ± 10	135	100.0	3800	133	140
100	K = ± 10	165	5.0	250	128	136
100	K = ± 10	165	10.0	480	129	137
not specified		200	45.0	480	129	-
100	K = ± 10	165	25.0	870	130	138
100	K = ± 10	165	50.0	1650	132	139
100	K = ± 10	165	100.0	3600	133	140
120	K = ± 10	200	5.0	210	128	136
120	K = ± 10	200	10.0	430	129	137
120	K = ± 10	200	25.0	720	130	138
120	K = ± 10	200	50.0	1370	132	139
120	K = ± 10	200	100.0	2900	133	140