

Disk Varistors

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

Type	Ordering code	Operating voltage		Surge current	Energy absorption	Power dissipation
		V_{RMS}	V_{DC}	i_{max} 8/20 μs	W_{max} (2 ms)	P_{max}
		V	V	A	J	W
SIOV-S05K95	Q69X3027	95	125	400	3.4	0.10
SIOV-S07K95	Q69X3038	95	125	1200	7.6	0.25
SIOV-S07S95AGS2 ¹⁾	Q69X4574	95	125	1200	7.6	0.25
SIOV-S10K95	Q69X3050	95	125	2500	15.0	0.40
SIOV-S14K95	Q69X3138	95	125	4500	25.0	0.60
SIOV-S20K95	Q69X3226	95	125	6500	50.0	1.00
SIOV-S05K115	Q69X4318	115	150	400	3.6	0.10
SIOV-S07K115	Q69X4319	115	150	1200	8.4	0.25
SIOV-S10K115	Q69X4320	115	150	2500	18.0	0.40
SIOV-S14K115	Q69X4321	115	150	4500	30.0	0.60
SIOV-S20K115	Q69X4322	115	150	6500	60.0	1.00
SIOV-S05K130	Q69X3028	130	170	400	4.2	0.10
SIOV-S07K130	Q69X3039	130	170	1200	9.5	0.25
SIOV-S10K130	Q69X3119	130	170	2500	19.0	0.40
SIOV-S14K130	Q69X3139	130	170	4500	34.0	0.60
■ SIOV-S18K130	Q69X4538	130	170	6500	68.0	1.00
SIOV-S20K130	Q69X3227	130	170	8000	74.0	1.00
■ SIOV-S20S130B	Q69X4397	130	170	8000	70.0	1.00
SIOV-S20S130BR7	Q69X4379	130	170	8000	70.0	1.00
SIOV-S05K140	Q69X3029	140	180	400	4.5	0.10
SIOV-S07K140	Q69X3040	140	180	1200	10.0	0.25
SIOV-S10K140	Q69X3120	140	180	2500	22.0	0.40
SIOV-S14K140	Q69X3140	140	180	4500	36.0	0.60
■ SIOV-S18K140	Q69X4623	140	180	6500	72.0	1.00
SIOV-S20K140	Q69X3228	140	180	8000	78.0	1.00
SIOV-S05K150	Q69X3030	150	200	400	4.9	0.10
SIOV-S07K150	Q69X3041	150	200	1200	11.0	0.25
SIOV-S10K150	Q69X3121	150	200	2500	24.0	0.40
SIOV-S14K150	Q69X3141	150	200	4500	40.0	0.60
■ SIOV-S18K150	Q69X4535	150	200	6500	79.0	1.00
SIOV-S20K150	Q69X3229	150	200	8000	85.0	1.00

The dimensions of the varistors listed above are given on page 101.

■ Not for new design

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/I characteristic Page
		v V	i A			
150	$K = \pm 10$	250	5.0	135	128	136
150	$K = \pm 10$	250	10.0	260	129	137
not specified		270	45.0	260	129	—
150	$K = \pm 10$	250	25.0	530	130	138
150	$K = \pm 10$	250	50.0	870	132	139
150	$K = \pm 10$	250	100.0	1830	133	140
180	$K = \pm 10$	300	5.0	110	128	136
180	$K = \pm 10$	300	10.0	220	129	137
180	$K = \pm 10$	300	25.0	445	130	138
180	$K = \pm 10$	300	50.0	730	132	139
180	$K = \pm 10$	300	100.0	1520	133	140
205	$K = \pm 10$	340	5.0	100	128	136
205	$K = \pm 10$	340	10.0	200	129	137
205	$K = \pm 10$	340	25.0	400	130	138
205	$K = \pm 10$	340	50.0	650	132	139
205	$K = \pm 10$	340	100.0	1310	133	140
205	$K = \pm 10$	340	100.0	1340	134	141
205	$S = + 8/- 10$	325	100.0	1340	134	142
205	$S = + 8/- 10$	325	100.0	1340	134	142
220	$K = \pm 10$	360	5.0	95	128	136
220	$K = \pm 10$	360	10.0	180	129	137
220	$K = \pm 10$	360	25.0	370	130	138
220	$K = \pm 10$	360	50.0	610	132	139
220	$K = \pm 10$	360	100.0	1210	133	140
220	$K = \pm 10$	360	100.0	1240	134	141
240	$K = \pm 10$	395	5.0	90	128	136
240	$K = \pm 10$	395	10.0	170	129	137
240	$K = \pm 10$	395	25.0	350	130	138
240	$K = \pm 10$	395	50.0	570	132	139
240	$K = \pm 10$	395	100.0	1130	133	140
240	$K = \pm 10$	395	100.0	1160	134	141