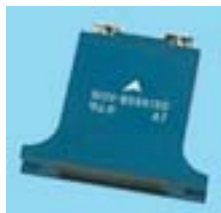


AC Working Voltage (V)	DC Working Voltage (V)	Transient Energy (10/1000µs) (Joules)	Peak Transient Current (8/20µs) (A)	Varistor Voltage @ 1mA dc			Device	Mfrs. List No.	Order Code
				V min	V nom	V max			
150	200	80	6500	212	240	243	150L20B	V150LA20BP	105-7190
175	225	55	4500	247	270	303	175L10	V175LA10AP	105-7146
230	300	20	1200	324	360	396	2304	V230LA4P	105-7147
230	300	70	4500	324	360	396	230L20	V230LA20AP	105-7148
250	330	21	1200	354	390	473	2502	V250LA2P	105-7191
250	330	21	1200	354	390	429	2504	V250LA4P	105-7192
250	330	40	2500	354	390	429	250L	V250LA10P	105-7193
250	330	72	4500	354	390	429	250L20	V250LA20AP	105-7195
250	330	130	6500	354	390	429	250L40	V250LA40AP	105-7197
250	330	130	6500	354	390	413	250L40B	V250LA40BP	105-7198
275	369	23	1200	389	430	515	2752	V275LA2P	105-7149
275	369	23	1200	389	430	473	2754	V275LA4P	105-7199
275	369	45	2500	389	430	473	275L	V275LA10P	105-7201
275	369	75	4500	389	430	473	275L20	V275LA20AP	105-7202
275	369	140	6500	389	430	473	275L40	V275LA40AP	105-7203
275	369	140	6500	389	430	453	275L40B	V275LA40BP	105-7204
320	420	90	4500	462	510	565	320L20	V320LA20AP	105-7205
320	420	160	6500	462	510	540	320L40	V320LA40BP	105-7150
420	560	45	2500	610	680	748	420L	V420LA10P	105-7206
420	560	90	4500	610	680	748	420L20	V420LA20AP	105-7151
420	560	160	6500	610	680	720	420L40	V420LA40BP	105-7152
480	640	105	4500	670	750	825	480L40	V480LA40AP	105-7207
480	640	180	6500	670	750	790	480L80	V480LA80BP	105-7208
510	675	110	4500	735	820	910	510L40	V510LA40AP	105-7209
575	730	120	4500	805	910	1000	575L40	V575LA40AP	105-7210
575	730	220	6500	805	910	960	575L80	V575LA80BP	105-7213
660	850	140	4500	940	1050	1210	660L50	V660LA50AP	105-7214
1000	1200	360	6500	1425	1600	1600	1000L160	V1000LA160BP	105-7153

204222

AC Voltage	Energy (Joules)	Pack-age	Order Code	5+	25+	100+	1K+
130	11	c	105-7180	11.00	9.00	7.00	6.00
130	20	b	105-7181	16.00	12.00	10.00	10.00
130	38	d	105-7183	47.00	38.00	32.00	27.00
130	70	e	105-7184	68.00	55.00	47.00	40.00
130	70	e	105-7185	73.00	59.00	51.00	39.00
150	13	c	105-7186	10.00	8.00	7.00	6.00
150	25	b	105-7187	41.00	34.00	28.00	24.00
150	45	d	105-7188	24.00	18.00	16.00	13.00
150	80	e	105-7189	73.00	58.00	49.00	42.00
150	80	e	105-7190	75.00	62.00	52.00	41.00
175	55	d	105-7146	46.00	38.00	33.00	26.00
230	20	c	105-7147	57.00	46.00	39.00	31.00
230	70	d	105-7148	100.00	83.00	71.00	56.00
250	21	c	105-7191	23.00	19.00	17.00	13.00
250	21	c	105-7192	10.00	9.00	8.00	6.00
250	40	b	105-7193	27.00	19.00	11.00	10.00
250	72	d	105-7195	24.00	18.00	16.00	13.00
250	130	e	105-7197	43.00	35.00	29.00	25.00
250	130	e	105-7198	73.00	59.00	51.00	39.00
275	23	c	105-7149	22.00	18.00	14.00	12.00
275	23	c	105-7199	13.00	11.00	9.00	8.00
275	45	b	105-7201	27.00	19.00	11.00	10.00
275	75	d	105-7202	25.00	20.00	17.00	14.00
275	140	e	105-7203	39.00	32.00	26.00	23.00
275	140	e	105-7204	42.00	34.00	29.00	23.00
320	90	d	105-7205	28.00	24.00	20.00	16.00
320	160	e	105-7150	54.00	43.00	37.00	29.00
420	45	b	105-7206	20.00	16.00	13.00	12.00
420	90	d	105-7151	22.00	18.00	15.00	--
420	160	e	105-7152	52.00	43.00	37.00	29.00
480	105	g	105-7207	26.00	22.00	18.00	17.00
480	180	h	105-7208	126.00	102.00	86.00	68.00
510	110	g	105-7209	140.00	114.00	95.00	82.00
575	120	g	105-7210	38.00	31.00	26.00	24.00
575	220	h	105-7213	65.00	54.00	45.00	37.00
660	140	g	105-7214	85.00	69.00	60.00	--
1000	360	e	105-7153	151.00	124.00	106.00	91.00

Metal Oxide Block Varistors – SIOV Series



B32/B40 Style



Block encapsulated, symmetrical characteristic, metal oxide varistors for high power transient suppression. Their resistance value decreases with increased voltage, thus 'short-circuiting' a further rise in overvoltage, safeguarding sensitive electronic equipment. UL recognised and CSA approved.

AC Working Voltage (V)	DC Working Voltage (V)	Transient Energy (10/2000µs) (Joules)	Peak Transient Current (8/20µs) (A)	Nominal Varistor Voltage (V)	Maximum Clamping Voltage (V)	Mfrs List No.	Order Code
130	170	210	25000	205	340	B72232B131K001	120-0450
230	300	300	25000	360	595	B72232B231K001	120-0451
230	300	460	40000	360	595	B72240B231K001	120-0452
250	320	330	25000	390	650	B72232B251K001	120-0453
275	350	550	40000	430	710	B72240B271K001	120-0454

204224

AC Voltage	Energy (Joules)	Order Code	1+	5+	10+
130	210	120-0450	1,391.00	1,099.00	848.00
230	300	120-0451	1,562.00	1,234.00	953.00
230	460	120-0452	2,726.00	2,153.00	1,662.00
250	330	120-0453	1,326.00	1,048.00	809.00
275	550	120-0454	2,050.00	1,620.00	1,251.00

Voltage Dependent Resistors



Body	H	W	D
592 Series	11	7	6
593 Series	13	9	6
594 Series	14	12.5	7
595 Series	19	16	7
Leads	L	Dia.	Spacing
592/593 Series	20	0.6	5
594/595 Series	16	0.8	7.5

- Voltage dependent resistors offering protection against high voltage surges and transients
- Zinc oxide ceramic epoxy coating providing insulation up to 2500V
- UL recognised and VDE approved

AC Working Voltage (V)	DC Working Voltage (V)	Transient Energy (10/1000µs) (Joules)	Varistor Voltage @ 1mA	Max Clamping V @ 100A (*50A) 8/20ms	Mfrs. List No.	Order Code
60	85	2.9	90	110	165	238159256006 118-7044
275	350	12	387	473	710	238159252716 118-7045
130	170	17	185	225	340	238159351316 118-7046
150	200	20	216	264	400	238159351516 118-7047
250	320	33	351	429	650	238159352516 118-7048
275	350	36	387	473	710	238159352716 118-7050
300	385	40	423	517	800	238159353016 118-7051
460	615	63	675	825	1240	238159354616 118-7052
60	85	8.3	90	110	165	238159356006 118-7054
275	350	63	387	473	710	238159452716 118-7055
275	350	104	387	473	710	238159552716 118-7056
460	615	135	675	825	1240	238159554616 118-7057

204226

AC Voltage	Energy (Joules)	Order Code	5+	100+	1K+	3K+
60	2.9	118-7044	30.00	22.00	19.00	16.00
275	12	118-7045	30.00	22.00	19.00	16.00
130	17	118-7046	40.00	27.00	22.00	19.00
150	20	118-7047	40.00	27.00	22.00	19.00
250	33	118-7048	38.00	25.00	22.00	19.00
275	36	118-7050	40.00	27.00	22.00	19.00
300	40	118-7051	40.00	27.00	23.00	21.00
300	40	118-7052	38.00	25.00	22.00	19.00
460	63	118-7054	38.00	25.00	22.00	19.00
60	8.3	118-7055	38.00	25.00	21.00	18.00
275	63	118-7056	48.00	34.00	27.00	24.00
275	104	118-7057	82.00	57.00	47.00	40.00
460	135	319-077	82.00	57.00	47.00	40.00

Capacitive Filters

Capacitive – 2499 Series



- Ceramic lead-through capacitors for low pass filtering applications, where chassis mounting is required and where space is at a premium.

Mounting hole dia.=5.4, Body length=11.9, Body dia.=6.35 (Hex), Lead thickness=1.29, Thread=1/28-NF-2A

Voltage rating	500V	Power Factor	0.03 (106-772=0.001)
Operating Temperature	-55°C to +125°C	Current Rating	10A
(pF)	Temperature Coefficient	Insertion Loss (50Ω system)	Mfrs. List No.
100	22%±56%+ to +α -55°C to +85°C	10MHz	100MHz
1000	+22% to 56% -55°C to +85°C	1GHz	2499-003-U2M0-101KLF
10000	+22% to 56% -55°C to +85°C	2499-003-X5U0-102PLF	118-6421
		2499-003-X5W0-103ZLF	118-6422
			118-6423

204233

pF	Order Code	1+	10+	50+	100+
100	118-6421	434.00	364.00	244.00	218.00
1000	118-6422	285.00	228.00	151.00	135.00
10000	118-6423	285.00	228.00	151.00	135.00

EMC, Filters & Suppression

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Compliant Non-compliant + Limited stock - RoHS replacement available

RoHS