



SMD Varistors



Specifications:

CU Series:

• Monolithic varistor element, encapsulated • Encapsulation: Thermoplastic, flame retardant to UL 94V-0 • Termination: Tinned copper alloy • Operating Temperature Range: -40°C - 85°C • Storage Temperature Range: -40°C - 125°C • Electric Strength: ≥2.5kVACRMS • Insulation Resistance: ≥1.0MΩ • Response Time: <10ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

CT/CN Series:

• Multilayer Technology • Termination: Nickel barrier (CT Series) and Silver palladium (CN Series) • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C - 85°C • Storage Temperature Range: -55°C - 125°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Automotive Series:

• Multilayer Technology • Termination: Silver palladium • No plastic

or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C - 125°C • Storage Temperature Range: -55°C - 150°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Features:

CU Series:

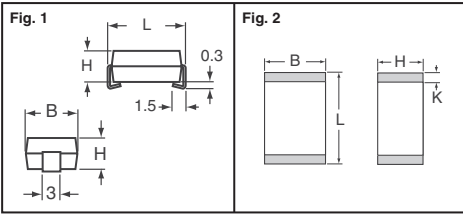
• Electrical equivalents to leaded types S05/S07 up to 460 VACRMS • Good Solderability • Approvals: UL (all types) and CSA (≥K130)

CT/CN Series:

• Good Solderability • Suitable for ESD protection • Bidirectional clamping

Automotive Series:

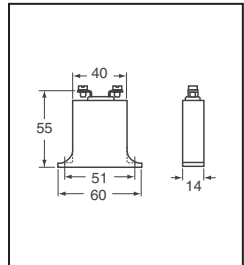
• High energy absorption, particularly in case of load dump • Stable protection level, low leakage current • High resistance to cyclic temperature stress • Wide operating temperature range • Low inductance (suitable for ESD protection) • Bidirectional clamping



Max. Allowance Voltage (V)		Varistor Voltage @ 1mA		Max. Clamping Voltage		imax 8/20 μs A	Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Epcos Part No.	
AC	DC	(V)	Tol. %	V	A		L	B	H		K	1	10		100	Qty.		Pricing
Fig. 1 — Monolithic CU Series																		
60	85	100	±10	165	5.0	400	8.0	6.3	3.2	—	495-2607-1-ND	1.36	1.12	.90	495-2607-2-ND	1,000	408.41	CU3225K60G2
150	200	240	±10	395	5.0	400	8.0	6.3	3.2	—	495-1463-1-ND	1.37	1.13	.91	495-1463-2-ND	1,000	411.61	CU3225K150G2K1
250	320	390	±10	650	5.0	400	8.0	6.3	4.5	—	495-2606-1-ND	1.36	1.12	.90	495-2606-2-ND	1,000	408.41	CU3225K250G2
275	350	430	±10	710	5.0	400	8.0	6.3	4.5	—	495-1464-1-ND	1.37	1.13	.91	495-1464-2-ND	2,000	384.39/M	CU3225K275G2K1
300	385	470	±10	775	5.0	400	8.0	6.3	4.5	—	495-1465-1-ND	1.37	1.13	.91	495-1465-2-ND	1,000	411.61	CU3225K300G2K1
150	200	240	±10	395	10	1200	10.2	8.0	3.2	—	495-1466-1-ND	1.73	1.42	1.15	495-1466-2-ND	1,000	518.92	CU4032K150G2K1
275	350	430	±10	710	10	1200	10.2	8.0	4.5	—	495-1467-1-ND	1.73	1.42	1.15	495-1467-2-ND	1,000	518.92	CU4032K275G2K1
300	385	470	±10	775	10	1200	10.2	8.0	4.5	—	495-1468-1-ND	1.73	1.42	1.15	495-1468-2-ND	1,000	518.92	CU4032K300G2K1
Fig. 2 — Multilayer CN/CT Series																		
4	5.5	8	±20	24	1.0	25	1.0	.50	.6	.1-3	495-3425-1-ND	.52	.42	.25	495-3425-2-ND	10,000	79.28/M	CT0402M4G
4	5.5	8	±20	19	1.0	30	1.6	.80	.9	.1-4	495-2595-1-ND	.55	.44	.27	495-2595-2-ND	4,000	89.68/M	CT0603M4G
14	18	22	±10	40	1.0	30	1.6	.80	.9	.1-4	495-2593-1-ND	.56	.45	.27	495-2593-2-ND	4,000	91.29/M	CT0603K14G
25	31	39	±10	67	1.0	30	1.6	.80	.9	.1-4	495-2594-1-ND	.56	.45	.27	495-2594-2-ND	4,000	91.29/M	CT0603K25G
4	5.5	8	±20	19	1.0	100	2.0	1.25	1.4	.13-.75	495-2599-1-ND	.71	.60	.38	495-2599-2-ND	3,000	143.35/M	CT0805M4G
11	14	18	±10	35	1.0	120	2.0	1.25	1.4	.13-.75	495-2596-1-ND	.71	.60	.38	495-2596-2-ND	3,000	143.35/M	CT0805K11G
25	31	39	±10	67	1.0	80	2.0	1.25	1.4	.13-.75	495-2597-1-ND	.71	.60	.38	495-2597-2-ND	3,000	143.35/M	CT0805K25G
30	38	47	±10	77	1.0	80	2.0	1.25	1.4	.13-.75	495-2598-1-ND	.71	.60	.38	495-2598-2-ND	3,000	143.35/M	CT0805K30G
17	22	27	±10	44	1.0	200	3.2	1.60	1.7	.25-.75	495-2601-1-ND	.94	.79	.58	495-2601-2-ND	3,000	241.36/M	CT1206K17G
25	31	39	±10	65	1.0	200	3.2	1.60	1.7	.25-.75	495-2591-1-ND	.82	.71	.48	495-2591-2-ND	2,000	185.87/M	CN1206K25G
30	38	47	±10	77	1.0	200	3.2	1.60	1.7	.25-.75	495-2602-1-ND	.79	.68	.46	495-2602-2-ND	2,000	191.15/M	CT1206K30G
40	56	68	±10	110	1.0	100	3.2	1.60	1.7	.25-.75	495-2603-1-ND	.98	.83	.61	495-2603-2-ND	2,000	253.70/M	CT1206K40G
30	38	47	±10	77	2.5	300	3.2	2.50	1.7	.25-.75	495-2396-1-ND	1.07	.88	.71	495-2396-2-ND	2,000	298.70/M	CN1210K30G
30	38	47	±10	77	2.5	300	3.2	2.50	1.7	.25-.75	495-2604-1-ND	1.04	.87	.64	495-2604-2-ND	2,000	268.27/M	CT1210K30G
30	38	47	±10	77	10	1200	5.7	5.00	2.5	.25-1.0	495-2397-1-ND	2.41	2.01	1.77	495-2397-2-ND	1,000	825.38	CN2220K30G
Fig. 2 — Multilayer Automotive Series																		
14	16	22	+23/-0	42	1.0	120	2.0	1.25	1.4	.13-.75	495-2600-1-ND	.75	.64	.40	495-2600-2-ND	3,000	150.55/M	CT0805S14BAUTOG
14	16	22	+23/-0	40	1.0	200	3.2	1.60	1.7	.25-.75	495-1459-1-ND	.94	.79	.58	495-1459-2-ND	3,000	244.01/M	CN1206S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.50	1.7	.25-.75	495-2605-1-ND	.88	.75	.51	495-2605-2-ND	3,000	211.41/M	CT1210S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.50	1.7	.25-.75	495-1460-1-ND	.90	.76	.52	495-1460-2-ND	3,000	214.62/M	CN1210S14BAUTOG
14	16	22	+23/-0	40	10	1200	5.7	5.00	2.5	.25-1.0	495-1461-1-ND	3.57	2.96	2.62	495-1461-2-ND	1,500	1218.26/M	CN2220S14BAUTOG

Block Varistors - High Series

Specifications: • Disk-shaped varistor element, potted in plastic housing • Housing and potting flame-retardant to UL 94 V-0 • Screw terminals M4 • Operating Temperature Range: -40°C - 85°C • Storage Temperature Range: -40°C - 110°C • Electric Strength: ≥2.5 kVACRMS • Insulation Resistance: ≥10MΩ • Response Time: <25ns Features: • Heavy-duty varistors (surge current capability up to 100kA) • Wide product range • Approvals: UL, CSA (≥K130), SEV



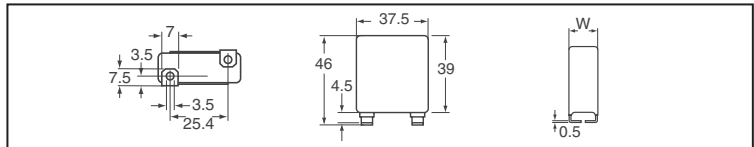
Max. Allowance Voltage (V)		Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage		imax 8/20 μs A	Digi-Key Part No.	Pricing			Epcos Part No.
AC	DC		V	A			1	10	100	
130	170	205	340	200	25000	495-1452-ND	15.92	151.31	1194.53	B32K130
150	200	240	395	200	25000	495-1453-ND	15.92	151.31	1194.53	B32K150
275	350	430	710	200	25000	495-2393-ND	15.92	151.31	1194.53	B32K275
550	745	910	1500	200	25000	495-2394-ND	18.18	172.26	1387.63	B32K550
130	170	205	340	300	40000	495-1454-ND	39.49	374.05	3013.13	B40K130
150	200	240	395	300	40000	495-1455-ND	39.49	374.05	3013.13	B40K150
275	350	430	710	300	40000	495-2395-ND	39.49	374.05	3013.13	B40K275

Strap Varistors - High Series

Specifications: • Coating: Epoxy resin, flame-retardant to UL 94V-0 • Bolt-holed strap terminals for screw fixing or soldering • Bent strap terminals • Operating Temperature Range: -25°C - 85°C • Storage Temperature Range: -25°C - 110°C • Electric Strength: ≥2.5 kVACRMS • Insulation Resistance: ≥10MΩ • Response Time: <25ns

Features:

• Maximum load capacity with minimum size • Approvals: UL, CSA



Max. Allowable Voltage (V)		Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage		imax 8/20 μs A	Dimension (mm) W	Digi-Key Part No.	Pricing			Epcos Part No.
AC	DC		V	A				1	10	100	
150	200	240	395	300	40,000	8.3	495-1456-ND	37.40	355.36	2805.54	LS40K150QP
275	350	430	710	300	40,000	9.4	495-1457-ND	43.64	414.59	3273.13	LS40K275QP
320	420	510	840	300	40,000	9.9	495-1458-ND	20.58	182.97	1463.73	LS40K320QP
150	200	240	395	300	45,000	8.3	495-3439-ND	18.54	175.61	1414.60	LS41K150QP
420	560	680	1120	300	45,000	10.9	495-3442-ND	18.16	172.08	1386.19	LS41K420QP

◆ RoHS Compliant

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