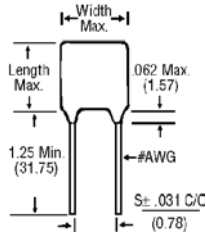


K Series Mono-Kaps



The X7R Series capacitors are designed to provide reliable temperature stable performance over an extremely wide temperature range in bypass, coupling and blocking operations. The Y5V- and Z5U-Series capacitors are ideally suited for a wide range of non-critical general purpose bypass, coupling and filtering applications. **Note:** COG (NPO) temperature characteristic and are ideally suited for RC network, pulse and RF tuned circuit applications where extremely stable performance is required.

MONO-Kap® Ceramic Capacitors

Size Code	Max. Length	Max. Width	Max. Thickness	Pitch	d
15	4.0	4.0	2.5	2.5/5.0	0.5
20	5.0	5.0	3.2	2.5/5.0	0.5

Size Code and dimensions in mm.

X7R Series — Temperature Stable and Epoxy Coated

Stock No.	Mfr.'s Type†	WVDC	Cap. (mfd)	EACH		Stock No.	Mfr.'s Type†	WVDC	Cap. (mfd)	EACH	
				1-499	500-999					1-499	500-999
648-0001	K221K15X7RF53L2	50	220 pf	.78	.45	648-0135	K683K20X7RF53L2	50	0.0680	.43	.35
648-0007	K471K15X7RF53L2	50	470 pf	.78	.45	648-0137	K104K15X7RF53L2	50	0.1000	.22	.17
648-0109	K681K15X7RF53L2	50	680 pf	.22	.18	648-0139	K104M15X7RF53L2	50	0.1000	.25	.20
648-0111	K821K15X7RF53L2	50	820 pf	.22	.18	648-0141	K154K20X7RF53H5	50	0.1500	.58	.48
648-0113	K102K15X7RF53L2	50	0.0010	.16	.13	648-0143	K224K20X7RF53H5	50	0.2200	1.12	.67
648-0115	K102M15X7RF53L2	50	0.0010	.19	.15	648-0145	K471K15X7RH53L2	100	470 pf	.22	.18
648-0117	K222K15X7RF53L2	50	0.0022	.16	.13	648-0147	K681K15X7RH53L2	100	680 pf	.22	.18
648-0119	K332K15X7RF53L2	50	0.0033	.15	.12	648-0151	K332K15X7RH53L2	100	0.0033	.23	.18
648-0121	K472K15X7RF53L2	50	0.0047	.23	.19	648-0153	K472K15X7RH53L2	100	0.0047	.65	.50
648-0123	K103K15X7RF53L2	50	0.0100	.50	.40	648-0155	K103M15X7RH53L2	100	0.0100	.16	.13
648-0125	K103M15X7RF53L2	50	0.0100	.19	.15	648-0157	K223K20X7RH53L2	100	0.0220	.16	.13
648-0127	K153K15X7RF53L2	50	0.0150	.26	.21	648-0159	K333K15X7RF53L2	100	0.0330	.37	.30
648-0133	K473M15X7RF53L2	50	0.0470	.38	.31	648-0161	K473K20X7RH53L2	100	0.0470	.30	.24

Y5V/Z5U Series — General-Purpose Miniature Size Capacitors with High Capacitance, Epoxy Coated

648-0167	K104Z15Y5VF53L2	50	0.1000	.26	.20	648-0177	K104Z15Z5UF53L2	50	0.1000	.18	.15
648-0169	K102M15Z5UF53L2	50	0.0010	.65	.49	648-0183	K224M20Z5UF53L2	50	0.2200	.31	.24
648-0171	K103Z15Z5UF53L2	50	0.0100	.16	.13	648-0185	K334M20Z5UF53H5	50	0.3300	.35	.28
648-0173	K473Z15Z5UF53L2	50	0.0470	.25	.20	648-0193	K474Z20Z5UF53L2	50	0.4700	.37	.29
648-0175	K104M15Z5UF53L2	50	0.1000	.22	.16	648-0197	K104M20Z5UH53L2	100	0.1000	.45	.35

Ultra Stable COG (NPO) Rated

648-0201	K101K15C0GF53L2	50	100 pf	.30	.25	648-0219	K101K15C0GH53L2	100	100 pf	.40	.27
648-0205	K100K15C0GH53L2	100	10 pf	.31	.24	648-0221	K221K15C0GH53L2	100	220 pf	.20	.18
648-0207	K150K15C0GH53L2	100	15 pf	.15	.12	648-0225	K331K15C0GH53L2	100	330 pf	.18	.14
648-0209	K220K15C0GH53L2	100	22 pf	.80	.52	648-0227	K102J20C0GH53L2	100	0.0010	.23	.18
648-0211	K330K15C0GH53L2	100	33 pf	.75	.52	648-0231	K102K20C0GH53L2	100	0.0010	.27	.22
648-0213	K470K15C0GH53L2	100	47 pf	.31	.24	648-0233	K152K20C0GH53L2	100	0.0015	.34	.27
648-0215	K680K15C0GH53L2	100	68 pf	.18	.15	648-0235	K222K20C0GH53H5	100	0.0022	.51	.40
648-0217	K101J15C0GH53L2	100	100 pf	.20	.16	648-0237	K332K20C0GH53H5	100	0.0033	.53	.42

†Fifth digit of Mfr.'s Type No. indicates tolerance: J — ±5%; K — ±10%; M — ±20%; Z — -20, +80%.

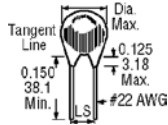
X1/Y1 Safety Capacitors

Designed for interference suppression across-the-line, antenna-coupling and line-bypass applications. Y5U dielectric. **Approvals:** UL1414, CSA, FIMKO, DEMKO, SEMKO, NEMKO, SEV, VDE. High reliability, flammability UL94V-0.

Stock No.	Mfr.'s Type	Cap. (pF)	Lead Space	Disc. Dia.	EACH
					1-499
648-0800	S101K33Y5PS63K7	100	0.300"	0.335"	.53
648-0802	S151K33Y5PS63K7	150	0.300"	0.335"	.53
648-0804	S221K33Y5PS63K7	220	0.300"	0.335"	.53
648-0806	S331K33Y5PS63K7	330	0.300"	0.335"	.53
648-0808	S471K33Y5PS63K7	470	0.300"	0.335"	.53
648-0810	S681K39Y5PS63K7	680	0.300"	0.394"	.64
648-0812	S102K43Y5PS63K7	1000	0.300"	0.433"	.75
648-0814	S102M33Z5US63K7	1000	0.300"	0.335"	.55
648-0816	S152M39Z5US63K7	1500	0.300"	0.394"	.62
648-0818	S222M43Z5US63K7	2200	0.300"	0.433"	.74
648-0820	S332M53Z5US63K7	3300	0.300"	0.532"	1.11
648-0822	S392M53Z5US63K7	3900	0.300"	0.532"	1.11
648-0824	S472M59Z5US63K7	4700	0.300"	0.591"	1.30
648-0826	S682M69Z5US83K0	6800	0.375"	0.690"	1.30
648-0828	S103M84Z5US83K0	10000	0.375"	0.846"	2.65

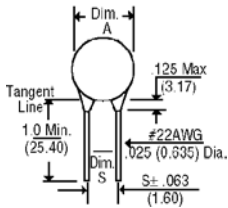
Series DD High-Voltage Disc Ceramics

Designed for non-critical coupling, by-pass and filter applications. **Operating Temperature Range:** -55° to +85°C. Tinned wire leads. **Encapsulation:** Phenolic coated. **Dielectric Strength:** 200% of rated working voltage. These high dielectric ceramic discs offer small size, tighter tolerances and a rugged humidity resistant coating. **Weight:** 2 oz.



Stock No.	Mfr.'s Type	WVDC	Cap. (pF)	% Tol.	Size In. D × T × Spac.	EACH		
						1-499	500-999	1000-Up
648-0451	S101M33Z5UR63L6	3000	100	±20	.350 × .236 × .250	1.05	.78	.67
648-0453	S102M33Z5UR63L6	3000	1000	±20	.430 × .236 × .250	.61	.45	.39
648-0455	S502M73Z5UR63L0	3000	5000	±20	.730 × .236 × .375	.99	.66	.52
648-0457	S501M66Z5UU83L0	6000	500	±20	.660 × .313 × .375	2.31	1.71	1.47
648-0459	S102M59Z5UU83L0	6000	1000	±20	.660 × .313 × .375	2.00	1.49	1.28
648-0461	S202M76Z5UU83L0	6000	2000	±20	.760 × .313 × .375	1.79	1.33	1.14

Capacitors



BC General Purpose capacitors provide a wide choice of 1000 VDC rated units for general purpose applications. These high dielectric ceramic discs offer small physical size, tighter tolerances and a rugged humidity resistant coating. Capacitors are primarily designed for non-critical coupling, bypass and filter applications found in all types of entertainment, industrial and medical equipment. **Capacitance Tolerance:** ±10%, (*) ±20% or (†) +80 -20% as listed. **Working Voltage:** 1000 volts DC except (‡) 500 DC. **Dielectric Strength:** 200% of rated working voltage. **Operating Temperature Range:** -55°C to +85°C. **Encapsulation:** Phenolic coated. Insulation **Resistance:** 10,000 megohms minimum. Tested at 500 volts DC maximum. Capacitance value, capacitance tolerance or code letter (D = ±0.5 pf, K = ±10%, M = ±20%, P = +100 -0%) working voltage and EIA temperature characteristic code as space permits.

Code	Dim. A		Dim. S		Thk.	
	In.	mm	In.	mm	In.	mm
A	.197	7.37	.250	6.35	.177	4.50
B	.290	7.74	.250	6.35	.177	4.50
C	.394	10.29	.250	6.35	.177	4.50
D	.472	12.70	.250	6.35	.177	4.50
E	.256	6.50	.250	6.35	.177	4.50
F	.310	7.87	.250	6.35	.177	4.50
G	.750	19.05	.375	9.52	.177	4.50
H	.930	23.62	.375	9.52	.177	4.50

Stock No.	Mfr.'s Type	Cap. (pF)	Size Code	EACH		
				1-499	500-999	1000-Up
648-0503	S100K25SLON63L6	10	E	.37	.25	.22
648-0505	S150K25SLON63L6	15	E	.37	.25	.22
648-0511	S220K25SLON63L6	22	B	.37	.25	.22
648-0519	S330K25SLON63L6	33	C	.19	.15	.12
648-0529	S680K25S3NN63L6	68	E	.19	.16	.13
648-0531	S820K25S3NN63L6	82	E	.19	.16	.13
648-0533	S101K29S3NN63L6	100	B	.20	.16	.13
648-0535	S121K29S3NN63L6	120	B	.20	.16	.13
648-0537	S181K29S3NN63L6	150	F	.20	.16	.13
648-0543	S221K25X5FN63L6	220	E	.20	.16	.13
648-0547	S271K25X5FN63L6	270	E	.20	.16	.13
648-0553	S391K29X5FN63L6	390	E	.23	.18	.15
648-0555	S471K29X5FN63L6	470	B	.23	.18	.15
648-0561	S681K29X5FN63L6	680	B	.23	.18	.15
648-0567	S102K33X5FN63L6	1000	C	.26	.21	.17
648-0569	S152K39X5FN63L6	1500	C	.31	.25	.21
648-0573	S222M29Z5UN63L6	2200*	F	.21	.16	.14
648-0579	S472M39Z5UN63L6	4700*	C	.24	.19	.16
648-0587	S153M3Z5UN63L0	15000†	E	.30	.24	.20