

# TAIYO YUDEN

## Multilayer Ceramic Chip Capacitor Arrays

### Features:

Internal electrode is nickel for increased cost performance and reliability

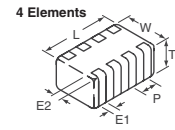
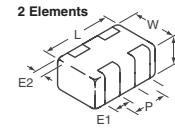
### Applications:

Communication Equipment: Mobile Phones, PHS, Cordless Phones, etc.

### Operating Temperature Range:

- X7R: -55° ~ 125°C
- X5R: -55° ~ 85°C

Type (Size Code)	Dimensions (mm)				
	L	W	E1	E2	P
□2K110 (0504)	1.37	1.00 ± 0.08	0.36	0.20	0.64
□4K212 (0805)	2.00	1.25 ± 0.10	0.25	0.25	0.50



Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Qty.	Pricing	
<b>2 Elements</b>													
0504	X7R	25	.10µF	±10%	0.6	587-1034-1-ND	1.76	10.40	30.00	587-1034-2-ND	4,000	29.00/M	T2K110BJ104KB-T
		16	.10µF	±10%	0.6	587-1036-1-ND	1.76	10.40	30.00	587-1036-2-ND	4,000	29.00/M	E2K110B7104KB-T
<b>4 Elements</b>													
0805	X5R	25	.10µF	±10%	0.85	587-1045-1-ND	4.51	26.65	76.88	587-1045-2-ND	4,000	74.00/M	T4K212BJ104KD-T
		16	.10µF	±10%	0.85	587-1046-1-ND	3.74	22.10	63.75	587-1046-2-ND	4,000	61.00/M	E4K212B7104KD-T
		10	.22µF	±10%	0.85	587-1047-1-ND	5.17	30.55	88.13	587-1047-2-ND	4,000	85.00/M	L4K212BJ224KD-T

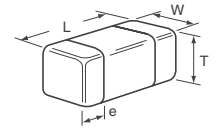
## Super Low Distortion Multilayer Ceramic Capacitors (CFCAP)

**Features:** Newly developed dielectric material and the use of nickel for internal electrodes provide excellent temperature characteristics with high capacitance, small case size, and low cost. Low distortion and low shock noise make these capacitors well-suited for use in analog or digital mobile devices. Excellent heat-resistance, high break-down voltage, and mechanical strength make these capacitors well suited for replacing film capacitors.

**Applications:** • Signal line for AV products • Analog signal coupling applications • PLL circuit of mobile phones • Good temperature characteristics for time-constant circuits, oscillation circuits and filters

**Specifications:** • Operating Temperature: -55°C ~ 125°C

Type (Size Code)	Dimensions (mm)		
	L	W	e
□MK105 (0402)	1.0	0.5 ± 0.05	0.25
□MK107 (0603)	1.6	0.8 ± 0.10	0.35
□MK212 (0805)	2.0	1.25 ± 0.10	0.5
□MK316 (1206)	3.2	1.6 ± 0.15	0.5



Size Code	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
						10	100	500		Qty.	Pricing	
0402	50	390pF	±5%	0.5	587-1462-1-ND	4.27	25.22	72.75	587-1462-2-ND	10,000	70.00/M	UMK105SD391JV-F
		390pF	±10%	0.5	587-1461-1-ND	4.00	23.66	68.25	587-1461-2-ND	10,000	66.00/M	UMK105SD391KV-F
		470pF	±5%	0.5	587-1464-1-ND	4.27	25.22	72.75	587-1464-2-ND	10,000	70.00/M	UMK105SD471JV-F
		470pF	±10%	0.5	587-1463-1-ND	3.89	23.01	66.38	587-1463-2-ND	10,000	64.00/M	UMK105SD471KV-F
		560pF	±5%	0.5	587-1466-1-ND	4.27	25.22	72.75	587-1466-2-ND	10,000	70.00/M	UMK105SD561JV-F
		560pF	±10%	0.5	587-1465-1-ND	4.00	23.66	68.25	587-1465-2-ND	10,000	66.00/M	UMK105SD561KV-F
	25	1000pF	±5%	0.5	587-1051-1-ND	4.40	26.00	75.00	587-1051-2-ND	10,000	72.00/M	TMK105SD102JV-F
		1200pF	±5%	0.5	587-1053-1-ND	4.51	26.65	76.88	587-1053-2-ND	10,000	74.00/M	TMK105SD122JV-F
		1500pF	±5%	0.5	587-1055-1-ND	4.29	25.35	73.13	587-1055-2-ND	10,000	70.00/M	EMK105SD152JV-F
		1500pF	±10%	0.5	587-1056-1-ND	4.07	24.05	69.38	587-1056-2-ND	10,000	67.00/M	EMK105SD152KV-F
		1800pF	±5%	0.5	587-1057-1-ND	4.29	25.35	73.13	587-1057-2-ND	10,000	70.00/M	EMK105SD182JV-F
		1800pF	±10%	0.5	587-1058-1-ND	4.29	25.35	73.13	587-1058-2-ND	10,000	70.00/M	EMK105SD182KV-F
16	2200pF	±5%	0.5	587-1059-1-ND	4.29	25.35	73.13	587-1059-2-ND	10,000	70.00/M	EMK105SD222JV-F	
	2700pF	±5%	0.5	587-1061-1-ND	4.29	25.35	73.13	587-1061-2-ND	10,000	70.00/M	EMK105SD272JV-F	
	3300pF	±5%	0.5	587-1063-1-ND	4.29	25.35	73.13	587-1063-2-ND	10,000	70.00/M	LMK105SD332JV-F	
	3900pF	±5%	0.5	587-1065-1-ND	4.62	27.30	78.75	587-1065-2-ND	10,000	76.00/M	LMK105SD392JV-F	
	4700pF	±5%	0.5	587-1067-1-ND	4.73	27.95	80.63	587-1067-2-ND	10,000	77.00/M	LMK105SD472JV-F	
	4700pF	±10%	0.5	587-1068-1-ND	4.51	26.65	76.88	587-1068-2-ND	10,000	74.00/M	LMK105SD472KV-F	
0603	50	1000pF	±5%	0.8	587-1069-1-ND	4.40	26.00	75.00	587-1069-2-ND	4,000	72.00/M	UMK107SD102JA-T
		1000pF	±10%	0.8	587-1070-1-ND	3.85	22.75	65.63	587-1070-2-ND	4,000	63.00/M	UMK107SD102KA-T
		1200pF	±5%	0.8	587-1071-1-ND	5.50	32.50	93.75	587-1071-2-ND	4,000	90.00/M	UMK107SD122JA-T
		1500pF	±10%	0.8	587-1074-1-ND	5.06	29.90	86.25	587-1074-2-ND	4,000	83.00/M	UMK107SD152KA-T
		2200pF	±5%	0.8	587-1077-1-ND	5.17	30.55	88.13	587-1077-2-ND	4,000	85.00/M	UMK107SD222JA-T
		2200pF	±10%	0.8	587-1078-1-ND	4.62	27.30	78.75	587-1078-2-ND	4,000	76.00/M	UMK107SD222KA-T
	25	2700pF	±5%	0.8	587-1079-1-ND	5.50	32.50	93.75	587-1079-2-ND	4,000	90.00/M	UMK107SD272JA-T
		3300pF	±5%	0.8	587-1081-1-ND	5.50	32.50	93.75	587-1081-2-ND	4,000	90.00/M	UMK107SD332JA-T
		3900pF	±5%	0.8	587-1083-1-ND	4.95	29.25	84.38	587-1083-2-ND	4,000	81.00/M	TMK107SD392JA-T
		4700pF	±5%	0.8	587-1085-1-ND	4.95	29.25	84.38	587-1085-2-ND	4,000	81.00/M	TMK107SD472JA-T
		6800pF	±5%	0.8	587-1089-1-ND	5.17	30.55	88.13	587-1089-2-ND	4,000	85.00/M	EMK107SD682JA-T
		8200pF	±5%	0.8	587-1091-1-ND	5.17	30.55	88.13	587-1091-2-ND	4,000	85.00/M	EMK107SD822JA-T
16	10000pF	±5%	0.8	587-1093-1-ND	4.40	26.00	75.00	587-1093-2-ND	4,000	72.00/M	EMK107SD103JA-T	
	10000pF	±10%	0.8	587-1094-1-ND	3.85	22.75	65.63	587-1094-2-ND	4,000	63.00/M	EMK107SD103KA-T	
	12000pF	±5%	0.8	587-1095-1-ND	5.61	33.15	95.63	587-1095-2-ND	4,000	92.00/M	LMK107SD123JA-T	
	15000pF	±5%	0.8	587-1097-1-ND	5.61	33.15	95.63	587-1097-2-ND	4,000	92.00/M	LMK107SD153JA-T	
	18000pF	±5%	0.8	587-1099-1-ND	5.61	33.15	95.63	587-1099-2-ND	4,000	92.00/M	LMK107SD183JA-T	
	22000pF	±5%	0.8	587-1101-1-ND	5.61	33.15	95.63	587-1101-2-ND	4,000	92.00/M	LMK107SD223JA-T	
0805	50	2200pF	±10%	0.8	587-1102-1-ND	4.51	26.65	76.88	587-1102-2-ND	4,000	74.00/M	LMK107SD223KA-T
		4700pF	±5%	0.85	587-1105-1-ND	5.83	34.45	99.38	587-1105-2-ND	4,000	95.00/M	UMK212SD472JD-T
		10000pF	±5%	0.85	587-1113-1-ND	5.50	32.50	93.75	587-1113-2-ND	4,000	90.00/M	UMK212SD103JD-T
		10000pF	±10%	0.85	587-1114-1-ND	4.95	29.25	84.38	587-1114-2-ND	4,000	81.00/M	UMK212SD103KD-T
		18000pF	±5%	1.25	587-1119-1-ND	6.16	36.40	105.00	587-1119-2-ND	3,000	101.00/M	GMK212SD183JG-T
		22000pF	±5%	1.25	587-1121-1-ND	6.16	36.40	105.00	587-1121-2-ND	3,000	101.00/M	GMK212SD223JG-T
	35	22000pF	±10%	1.25	587-1122-1-ND	5.72	33.80	97.50	587-1122-2-ND	3,000	94.00/M	GMK212SD223KG-T
		27000pF	±5%	1.25	587-1123-1-ND	6.27	37.05	106.88	587-1123-2-ND	3,000	103.00/M	GMK212SD273JG-T
		33000pF	±5%	0.85	587-1125-1-ND	6.84	40.43	116.63	587-1125-2-ND	4,000	112.00/M	EMK212SD333JD-T
		33000pF	±10%	0.85	587-1126-1-ND	6.16	36.40	105.00	587-1126-2-ND	4,000	101.00/M	EMK212SD333KD-T
		47000pF	±5%	0.85	587-1127-1-ND	6.82	40.30	116.25	587-1127-2-ND	4,000	112.00/M	LMK212SD473JD-T
		68000pF	±5%	1.25	587-1129-1-ND	6.82	40.30	116.25	587-1129-2-ND	3,000	112.00/M	LMK212SD683JG-T
10	82000pF	±5%	1.25	587-1131-1-ND	6.82	40.30	116.25	587-1131-2-ND	3,000	112.00/M	LMK212SD823JG-T	
	82000pF	±10%	1.25	587-1132-1-ND	6.38	37.70	108.75	587-1132-2-ND	3,000	104.00/M	LMK212SD823KG-T	
	.10µF	±5%	1.25	587-1133-1-ND	6.05	35.75	103.13	587-1133-2-ND	3,000	99.00/M	LMK212SD104JG-T	
	.10µF	±10%	1.25	587-1134-1-ND	5.50	32.50	93.75	587-1134-2-ND	3,000	90.00/M	LMK212SD104KG-T	
	47000pF	±5%	1.15	587-1139-1-ND	9.57	56.55	163.13	587-1139-2-ND	3,000	157.00/M	TMK316SD473JF-T	
	68000pF	±5%	1.15	587-1143-1-ND	9.57	56.55	163.13	587-1143-2-ND	3,000	157.00/M	TMK316SD683JF-T	
1206	25	.10µF	±5%	1.6	587-1147-1-ND	8.80	52.00	150.00	587-1147-2-ND	2,000	144.00/M	TMK316SD104JL-T
		.10µF	±10%	1.6	587-1148-1-ND	8.25	48.75	140.63	587-1148-2-ND	2,000	135.00/M	TMK316SD104KL-T

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