



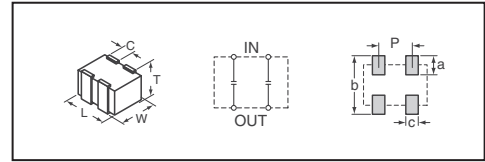
# CKC Series 2-Element Multilayer Ceramic Chip Capacitor Array



**Features:** • Two capacitors are fitted in a single product, contributing to reduced installation costs • The electrostatic capacity range and shape are designed to meet the demands of the cellular phone market • Reduced crosstalk (signal interference) between the terminals

**Applications:** • They are suited for circuits that require multiple identical capacitors in a particular area of a board, such as interfaces and high-frequency noise bypass circuits on cellular phones, interfaces including I/O cables on PCs and peripherals, as well as CPU bus lines

**Operating Temperatures:** • COG (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C



Case Size	Dimensions (mm)							
	L	W	T	C	P	a	b	c
0504	1.37±0.15	1.0±0.15	0.9 max.	0.36±0.1	0.64±0.1	0.45	1.20	0.30
0805	2.0±0.15	1.25±0.15	1.0 max.	0.45±0.1	1.0±0.1	0.60	1.60	0.50

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.	
						10	100	500		Qty.	Pricing		
0504	COG (NP0)	50	10pF	±1pF	445-1858-1-ND	.65	5.56	23.16	445-1858-2-ND	4,000	25.95/M	CKCM25COG1H100F	
		50	15pF	±10%	445-1859-1-ND	.65	5.56	23.16	445-1859-2-ND	4,000	25.95/M	CKCM25COG1H150K	
		50	22pF	±10%	445-1860-1-ND	.65	5.56	23.16	445-1860-2-ND	4,000	25.95/M	CKCM25COG1H220K	
		50	33pF	±10%	445-1861-1-ND	.65	5.56	23.16	445-1861-2-ND	4,000	25.95/M	CKCM25COG1H330K	
		50	47pF	±10%	445-1862-1-ND	.65	5.56	23.16	445-1862-2-ND	4,000	25.95/M	CKCM25COG1H470K	
		50	68pF	±10%	445-1863-1-ND	.65	5.56	23.16	445-1863-2-ND	4,000	25.95/M	CKCM25COG1H680K	
	X7R	50	1000pF	±20%	445-1865-1-ND	.65	5.56	23.16	445-1865-2-ND	4,000	25.95/M	CKCM25X7R1H102M	
		50	2200pF	±20%	445-1866-1-ND	.65	5.56	23.16	445-1866-2-ND	4,000	25.95/M	CKCM25X7R1H222M	
		25	4700pF	±20%	445-1867-1-ND	.65	5.56	23.16	445-1867-2-ND	4,000	25.95/M	CKCM25X7R1E472M	
		16	10000pF	±20%	445-1868-1-ND	.65	5.56	23.16	445-1868-2-ND	4,000	25.95/M	CKCM25X7R1C103M	
		X5R	10	22000pF	±20%	445-1869-1-ND	.75	6.41	26.73	445-1869-2-ND	4,000	29.94/M	CKCM25X5R1A223M
			10	47000pF	±20%	445-1870-1-ND	.75	6.41	26.73	445-1870-2-ND	4,000	29.94/M	CKCM25X5R1A473M
	6.3		10µF	±20%	445-1871-1-ND	.75	6.41	26.73	445-1871-2-ND	4,000	29.94/M	CKCM25X5R0J104M	
	6.3		22µF	±20%	445-1872-1-ND	1.15	9.83	40.98	445-1872-2-ND	4,000	45.90/M	CKCM25X5R0J224M	
	6.3		47µF	±20%	445-1873-1-ND	1.15	9.83	40.98	445-1873-2-ND	4,000	45.90/M	CKCM25X5R0J474M	
	6.3		1.0µF	±20%	445-1874-1-ND	1.15	9.83	40.98	445-1874-2-ND	4,000	45.90/M	CKCM25X5R0J105M	
	0805	COG (NP0)	50	10pF	±1pF	445-1875-1-ND	.90	7.70	32.06	445-1875-2-ND	4,000	35.91/M	CKCL22COG1H100F
			50	15pF	±10%	445-1876-1-ND	.90	7.70	32.06	445-1876-2-ND	4,000	35.91/M	CKCL22COG1H150K
50			22pF	±10%	445-1877-1-ND	.90	7.70	32.06	445-1877-2-ND	4,000	35.91/M	CKCL22COG1H220K	
50			33pF	±10%	445-1878-1-ND	.90	7.70	32.06	445-1878-2-ND	4,000	35.91/M	CKCL22COG1H330K	
50			47pF	±10%	445-1879-1-ND	.90	7.70	32.06	445-1879-2-ND	4,000	35.91/M	CKCL22COG1H470K	
50			68pF	±10%	445-1880-1-ND	.90	7.70	32.06	445-1880-2-ND	4,000	35.91/M	CKCL22COG1H680K	
X7R		50	1000pF	±20%	445-1881-1-ND	.90	7.70	32.06	445-1881-2-ND	4,000	35.91/M	CKCL22X7R1H102M	
		50	2200pF	±20%	445-1882-1-ND	1.00	8.55	35.63	445-1882-2-ND	4,000	39.90/M	CKCL22X7R1H222M	
		50	4700pF	±20%	445-1883-1-ND	1.00	8.55	35.63	445-1883-2-ND	4,000	39.90/M	CKCL22X7R1H472M	
		25	10000pF	±20%	445-1884-1-ND	1.10	9.41	39.19	445-1884-2-ND	4,000	43.89/M	CKCL22X7R1E103M	
		16	22000pF	±20%	445-1885-1-ND	1.10	9.41	39.19	445-1885-2-ND	4,000	43.89/M	CKCL22X7R1E223M	
		X5R	10	47000pF	±20%	445-1886-1-ND	1.00	8.55	35.63	445-1886-2-ND	4,000	35.91/M	CKCL22X5R1A473M
16			10µF	±20%	445-1887-1-ND	1.00	8.55	35.63	445-1887-2-ND	4,000	35.91/M	CKCL22X5R1A104M	
10			22µF	±20%	445-1888-1-ND	1.15	9.83	40.98	445-1888-2-ND	4,000	45.90/M	CKCL22X5R1A224M	
6.3			47µF	±20%	445-1889-1-ND	1.15	9.83	40.98	445-1889-2-ND	4,000	45.90/M	CKCL22X5R0J474M	
6.3			1.0µF	±20%	445-1890-1-ND	1.25	10.69	44.54	445-1890-2-ND	4,000	49.89/M	CKCL22X5R0J105M	



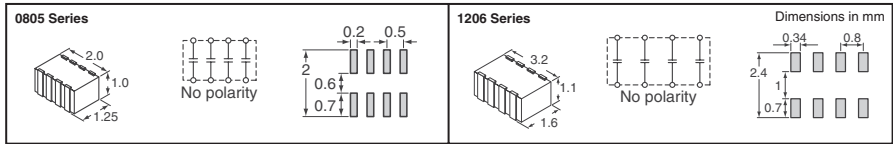
# CKC Series 4-Element Multilayer Ceramic Chip Capacitor Array



**Features:** • The CKC Series are integrated, single-chip, 4-element capacitors that are highly effective in EMC countermeasure applications • They are particularly effective when used as a bypass for digital signal line noise, thereby preventing EMC around connectors

**Applications:** • For use as a bypass for digital and analog signal line noise generated by telecommunications equipment and other common electronic circuits

**Operating Temperatures:** • COG (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C



Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
						10	100	500		Qty.	Pricing	
0805	COG (NP0)	50	10pF	±1pF	445-1822-1-ND	.90	7.70	32.06	445-1822-2-ND	4,000	35.91/M	CKCL44COG1H100F
		50	15pF	±10%	445-1823-1-ND	.90	7.70	32.06	445-1823-2-ND	4,000	35.91/M	CKCL44COG1H150K
		50	22pF	±10%	445-1824-1-ND	.90	7.70	32.06	445-1824-2-ND	4,000	35.91/M	CKCL44COG1H220K
		50	33pF	±10%	445-1825-1-ND	.90	7.70	32.06	445-1825-2-ND	4,000	35.91/M	CKCL44COG1H330K
		50	47pF	±10%	445-1826-1-ND	.90	7.70	32.06	445-1826-2-ND	4,000	35.91/M	CKCL44COG1H470K
		50	68pF	±10%	445-1827-1-ND	.90	7.70	32.06	445-1827-2-ND	4,000	35.91/M	CKCL44COG1H680K
	X7R	50	1000pF	±20%	445-1828-1-ND	.90	7.70	32.06	445-1828-2-ND	4,000	35.91/M	CKCL44X7R1H102M
		50	2200pF	±20%	445-1829-1-ND	.90	7.70	32.06	445-1829-2-ND	4,000	35.91/M	CKCL44X7R1H222M
		50	4700pF	±20%	445-1830-1-ND	.90	7.70	32.06	445-1830-2-ND	4,000	35.91/M	CKCL44X7R1H472M
		50	10000pF	±20%	445-1831-1-ND	.90	7.70	32.06	445-1831-2-ND	4,000	35.91/M	CKCL44X7R1E103M
		50	22000pF	±20%	445-1832-1-ND	.90	7.70	32.06	445-1832-2-ND	4,000	35.91/M	CKCL44X7R1E223M
		25	47000pF	±20%	445-1833-1-ND	.90	7.70	32.06	445-1833-2-ND	4,000	35.91/M	CKCL44X7R1E473M
	X5R	10	10000pF	±20%	445-1834-1-ND	.90	7.70	32.06	445-1834-2-ND	4,000	35.91/M	CKCL44X7R1C104M
		16	22000pF	±20%	445-1835-1-ND	1.00	8.55	35.63	445-1835-2-ND	4,000	39.90/M	CKCL44X7R1E103M
		10	47000pF	±20%	445-1836-1-ND	1.00	8.55	35.63	445-1836-2-ND	4,000	39.90/M	CKCL44X7R1C223M
		6.3	22000pF	±20%	445-1837-1-ND	1.00	8.55	35.63	445-1837-2-ND	4,000	39.90/M	CKCL44X5R1A473M
		6.3	10µF	±20%	445-1838-1-ND	1.15	9.83	40.98	445-1838-2-ND	4,000	45.90/M	CKCL44X5R0J104M
		1206	COG (NP0)	50	10pF	±1pF	445-1839-1-ND	1.00	8.55	35.63	445-1839-2-ND	2,000
50	15pF			±10%	445-1840-1-ND	1.00	8.55	35.63	445-1840-2-ND	2,000	39.90/M	CKCA43COG1H150K
50	22pF			±10%	445-1841-1-ND	1.00	8.55	35.63	445-1841-2-ND	2,000	39.90/M	CKCA43COG1H220K
50	33pF			±10%	445-1842-1-ND	1.00	8.55	35.63	445-1842-2-ND	2,000	39.90/M	CKCA43COG1H330K
50	47pF			±10%	445-1843-1-ND	1.00	8.55	35.63	445-1843-2-ND	2,000	39.90/M	CKCA43COG1H470K
50	68pF			±10%	445-1844-1-ND	1.00	8.55	35.63	445-1844-2-ND	2,000	39.90/M	CKCA43COG1H680K
X7R	50		1000pF	±20%	445-1845-1-ND	1.00	8.55	35.63	445-1845-2-ND	2,000	39.90/M	CKCA43X7R1H101K
	50		2200pF	±20%	445-1846-1-ND	1.00	8.55	35.63	445-1846-2-ND	2,000	39.90/M	CKCA43X7R1H222M
	50		4700pF	±20%	445-1847-1-ND	1.00	8.55	35.63	445-1847-2-ND	2,000	39.90/M	CKCA43X7R1H472M
	50		10000pF	±20%	445-1848-1-ND	1.10	9.41	39.19	445-1848-2-ND	2,000	43.89/M	CKCA43X7R1E103M
	50		22000pF	±20%	445-1849-1-ND	1.10	9.41	39.19	445-1849-2-ND	2,000	43.89/M	CKCA43X7R1E223M
	25		47000pF	±20%	445-1850-1-ND	1.00	8.55	35.63	445-1850-2-ND	2,000	39.90/M	CKCA43X7R1A473M
X5R	10		10000pF	±20%	445-1851-1-ND	1.00	8.55	35.63	445-1851-2-ND	2,000	39.90/M	CKCA43X7R1H102M
	10		22000pF	±20%	445-1852-1-ND	1.00	8.55	35.63	445-1852-2-ND	2,000	39.90/M	CKCA43X7R1H222M
	50		47000pF	±20%	445-1853-1-ND	1.00	8.55	35.63	445-1853-2-ND	2,000	39.90/M	CKCA43X7R1H472M
	50		100000pF	±20%	445-1854-1-ND	1.00	8.55	35.63	445-1854-2-ND	2,000	39.90/M	CKCA43X7R1H103M
	50		22000pF	±20%	445-1855-1-ND	1.15	9.83	40.98	445-1855-2-ND	2,000	45.89/M	CKCA43X7R1E223M
	25		47000pF	±20%	445-1856-1-ND	1.15	9.83	40.98	445-1856-2-ND	2,000	45.89/M	CKCA43X7R1E473M
16	10µF	±20%	445-1857-1-ND	1.25	10.69	44.54	445-1857-2-ND	2,000	49.88/M	CKCA43X7R1C104M		

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