

TAIYO YUDEN Multilayer Ceramic Chip Capacitors

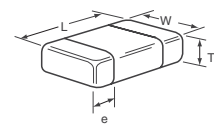


Features: The use of Nickel (Ni) as material for both the internal and external electrodes improves the solderability and heat resistance characteristics. This almost completely eliminates migration and raises the level of reliability significantly. Low equivalent series resistance (ESR) provides excellent noise absorption characteristics. Compared to tantalum or aluminum electrolytic capacitors, these ceramic capacitors offer a number of excellent features, including: • Higher permissible ripple current values • Smaller case sizes relative to rated voltage • Improved reliability due to higher insulation resistance and breakdown voltage

Operating Temperature Range: • C0G: -55° - 125°C • X7R: -55° - 125°C • X7S: -55° - 125°C • X5R: -55° - 85°C • X5S: -55° - 85°C • Y5V: -30° - 85°C

Size Code	Dimensions (mm)		
	L	W	e
01005	0.4	0.2	0.1
0201	0.6	0.3	0.15
0306	1.60	0.80	0.35
0402	1.00	0.50	0.25
0508	2.00	1.25	0.30
0603	1.60	0.90	0.35

Size Code	Dimensions (mm)		
	L	W	e
0612	3.20	1.60	0.30
0805	2.00	1.25	0.50
1206	3.20	1.60	0.50
1210	3.20	2.50	0.60
1812	4.50	3.20	0.90



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	
01005	C0G (NP0)	16	0.5pF	±0.25pF	0.2	587-2106-1-ND	19.64	116.05	334.81	587-2106-2-ND	15,000	323.08/M	EMK042CG0R5CC-F
			1.0pF	±0.25pF	0.2	587-2107-1-ND	19.64	116.05	334.81	587-2107-2-ND	15,000	323.08/M	EMK042CG010CC-F
			1.2pF	±0.25pF	0.2	587-2108-1-ND	19.64	116.05	334.81	587-2108-2-ND	15,000	323.08/M	EMK042CG1R2CC-F
			1.5pF	±0.25pF	0.2	587-2109-1-ND	19.64	116.05	334.81	587-2109-2-ND	15,000	323.08/M	EMK042CG1R5CC-F
			1.8pF	±0.25pF	0.2	587-2110-1-ND	19.64	116.05	334.81	587-2110-2-ND	15,000	323.08/M	EMK042CG1R8CC-F
			2.0pF	±0.25pF	0.2	587-2111-1-ND	19.64	116.05	334.81	587-2111-2-ND	15,000	323.08/M	EMK042CG020CC-F
			2.2pF	±0.25pF	0.2	587-2112-1-ND	19.64	116.05	334.81	587-2112-2-ND	15,000	323.08/M	EMK042CG2R2CC-F
			2.7pF	±0.25pF	0.2	587-2113-1-ND	19.64	116.05	334.81	587-2113-2-ND	15,000	323.08/M	EMK042CG2R7CC-F
			3.0pF	±0.25pF	0.2	587-2114-1-ND	19.64	116.05	334.81	587-2114-2-ND	15,000	323.08/M	EMK042CG030CC-F
			3.3pF	±0.25pF	0.2	587-2115-1-ND	19.64	116.05	334.81	587-2115-2-ND	15,000	323.08/M	EMK042CG3R3CC-F
			3.9pF	±0.25pF	0.2	587-2116-1-ND	19.64	116.05	334.81	587-2116-2-ND	15,000	323.08/M	EMK042CG3R9CC-F
			4.0pF	±0.25pF	0.2	587-2117-1-ND	19.64	116.05	334.81	587-2117-2-ND	15,000	323.08/M	EMK042CG040CC-F
			4.7pF	±0.25pF	0.2	587-2118-1-ND	19.64	116.05	334.81	587-2118-2-ND	15,000	323.08/M	EMK042CG4R7CC-F
			5.0pF	±0.25pF	0.2	587-2119-1-ND	19.64	116.05	334.81	587-2119-2-ND	15,000	323.08/M	EMK042CG050CC-F
			5.6pF	±0.5pF	0.2	587-2120-1-ND	19.64	116.05	334.81	587-2120-2-ND	15,000	323.08/M	EMK042CG5R6DC-F
			6.0pF	±0.5pF	0.2	587-2121-1-ND	19.64	116.05	334.81	587-2121-2-ND	15,000	323.08/M	EMK042CG060DC-F
			6.8pF	±0.5pF	0.2	587-2122-1-ND	19.64	116.05	334.81	587-2122-2-ND	15,000	323.08/M	EMK042CG6R8DC-F
			7.0pF	±0.5pF	0.2	587-2123-1-ND	19.64	116.05	334.81	587-2123-2-ND	15,000	323.08/M	EMK042CG070DC-F
			8.0pF	±0.5pF	0.2	587-2124-1-ND	19.64	116.05	334.81	587-2124-2-ND	15,000	323.08/M	EMK042CG080DC-F
			8.2pF	±0.5pF	0.2	587-2125-1-ND	19.64	116.05	334.81	587-2125-2-ND	15,000	323.08/M	EMK042CG8R2DC-F
	9.0pF	±0.5pF	0.2	587-2126-1-ND	19.64	116.05	334.81	587-2126-2-ND	15,000	323.08/M	EMK042CG090DC-F		
	10pF	±0.5pF	0.2	587-2127-1-ND	19.64	116.05	334.81	587-2127-2-ND	15,000	323.08/M	EMK042CG100DC-F		
	12pF	±5%	0.2	587-2128-1-ND	19.64	116.05	334.81	587-2128-2-ND	15,000	323.08/M	EMK042CG120JC-F		
	15pF	±5%	0.2	587-2129-1-ND	19.64	116.05	334.81	587-2129-2-ND	15,000	323.08/M	EMK042CG150JC-F		
	18pF	±5%	0.2	587-2130-1-ND	19.64	116.05	334.81	587-2130-2-ND	15,000	323.08/M	EMK042CG180JC-F		
	22pF	±5%	0.2	587-2131-1-ND	19.64	116.05	334.81	587-2131-2-ND	15,000	323.08/M	EMK042CG220JC-F		
	27pF	±5%	0.2	587-2132-1-ND	19.64	116.05	334.81	587-2132-2-ND	15,000	323.08/M	EMK042CG270JC-F		
	33pF	±5%	0.2	587-2133-1-ND	19.64	116.05	334.81	587-2133-2-ND	15,000	323.08/M	EMK042CG330JC-F		
	39pF	±5%	0.2	587-2134-1-ND	19.64	116.05	334.81	587-2134-2-ND	15,000	323.08/M	EMK042CG390JC-F		
	47pF	±5%	0.2	587-2135-1-ND	19.64	116.05	334.81	587-2135-2-ND	15,000	323.08/M	EMK042CG470JC-F		
	56pF	±5%	0.2	587-2136-1-ND	19.64	116.05	334.81	587-2136-2-ND	15,000	323.08/M	EMK042CG560JC-F		
	68pF	±5%	0.2	587-2137-1-ND	19.64	116.05	334.81	587-2137-2-ND	15,000	323.08/M	EMK042CG680JC-F		
	82pF	±5%	0.2	587-2138-1-ND	19.64	116.05	334.81	587-2138-2-ND	15,000	323.08/M	EMK042CG820JC-F		
	100pF	±5%	0.2	587-2139-1-ND	19.64	116.05	334.81	587-2139-2-ND	15,000	323.08/M	EMK042CG101JC-F		
	100pF	±10%	0.2	587-2140-1-ND	20.57	121.58	350.71	587-2140-2-ND	15,000	340.08/M	LMK042BJ101KC-F		
	220pF	±10%	0.2	587-2141-1-ND	20.57	121.58	350.71	587-2141-2-ND	15,000	340.08/M	LMK042BJ21KC-F		
	470pF	±10%	0.2	587-2142-1-ND	20.57	121.58	350.71	587-2142-2-ND	15,000	340.08/M	LMK042BJ47KC-F		
	1000pF	±10%	0.2	587-2143-1-ND	20.57	121.58	350.71	587-2143-2-ND	15,000	340.08/M	LMK042BJ102KC-F		
	2200pF	±10%	0.2	587-2144-1-ND	20.57	121.58	350.71	587-2144-2-ND	15,000	340.08/M	JMK042BJ22KC-F		
	4700pF	±10%	0.2	587-2145-1-ND	20.57	121.58	350.71	587-2145-2-ND	15,000	340.08/M	JMK042BJ47KC-F		
10000pF	±10%	0.2	587-2146-1-ND	20.57	121.58	350.71	587-2146-2-ND	15,000	340.08/M	JMK042BJ103KC-F			
0201	C0G (NP0)	25	5.6pF	±0.5pF	0.3	587-1158-1-ND	4.68	27.63	79.75	587-1158-2-ND	15,000	76.52/M	TMK063CG5R6DP-F
			6.8pF	±0.5pF	0.3	587-1159-1-ND	4.68	27.63	79.75	587-1159-2-ND	15,000	76.52/M	TMK063CG6R8DP-F
			8.2pF	±0.5pF	0.3	587-1160-1-ND	4.68	27.63	79.75	587-1160-2-ND	15,000	76.52/M	TMK063CG8R2DP-F
			10pF	±0.5pF	0.3	587-1161-1-ND	4.68	27.63	79.75	587-1161-2-ND	15,000	76.52/M	TMK063CG100DP-F
			22pF	±5%	0.3	587-1165-1-ND	4.68	27.63	79.75	587-1165-2-ND	15,000	76.52/M	TMK063CG220JP-F
			56pF	±5%	0.3	587-1170-1-ND	4.68	27.63	79.75	587-1170-2-ND	15,000	76.52/M	TMK063CG560JP-F
			82pF	±5%	0.3	587-1172-1-ND	4.68	27.63	79.75	587-1172-2-ND	15,000	76.52/M	TMK063CG820JP-F
			100pF	±5%	0.3	587-1173-1-ND	4.68	27.63	79.75	587-1173-2-ND	15,000	76.52/M	TMK063CG101JP-F
			220pF	±10%	0.3	587-1175-1-ND	4.68	27.63	79.75	587-1175-2-ND	15,000	76.52/M	TMK063BJ221KP-F
			1000pF	±10%	0.3	587-1177-1-ND	4.68	27.63	79.75	587-1177-2-ND	15,000	76.52/M	TMK063BJ102KP-F
	2200pF	±10%	0.3	587-1178-1-ND	4.68	27.63	79.75	587-1178-2-ND	15,000	76.52/M	EMK063BJ222KP-F		
	10000pF	±10%	0.3	587-1180-1-ND	4.68	27.63	79.75	587-1180-2-ND	15,000	76.52/M	EMK063BJ103KP-F		
	X5R	16	2200pF	±10%	0.3	587-1181-1-ND	8.42	49.74	143.51	587-1181-2-ND	15,000	136.04/M	LMK063BJ223KP-F
			47000pF	±10%	0.3	587-1182-1-ND	8.42	49.74	143.51	587-1182-2-ND	15,000	136.04/M	JMK063BJ473KP-F
			10µF	±10%	0.3	587-1183-1-ND	9.35	55.26	159.41	587-1183-2-ND	15,000	153.04/M	JMK063BJ104KP-F
			22µF	±20%	0.3	587-1819-1-ND	20.57	121.58	350.71	587-1819-2-ND	15,000	340.08/M	JMK063BJ224MP-F
			4	±20%	0.3	587-2147-1-ND	38.34	226.58	653.63	587-2147-2-ND	15,000	629.15/M	AMK063BJ474MP-F
		6.3	10µF	±10%	0.8	587-1783-1-ND	18.70	110.53	318.83	587-1783-2-ND	4,000	306.08/M	LWK107B7105KA-T
			10µF	±10%	0.8	587-1186-1-ND	32.73	193.42	557.99	587-1186-2-ND	4,000	535.63/M	JWK107B7105KA-T
			1.0pF	±0.25%	0.5	587-1187-1-ND	2.81	16.58	47.87	587-1187-2-ND	10,000	42.51/M	UMK105CG010CW-F
1.2pF			±0.25%	0.5	587-1188-1-ND	2.81	16.58	47.87	587-1188-2-ND	10,000	42.51/M	UMK105CG1R2CW-F	
1.5pF			±0.25%	0.5	587-1189-1-ND	2.81	16.58	47.87	587-1189-2-ND	10,000	42.51/M	UMK105CG1R5CW-F	
2.2pF	±0.25%	0.5	587-1191-1-ND	2.81	16.58	47.87	587-1191-2-ND	10,000	42.51/M	UMK105CG2R2CW-F			
2.7pF	±0.25%	0.5	587-1192-1-ND	2.81	16.58	47.87	587-1192-2-ND	10,000	42.51/M	UMK105CG2R7CW-F			
3.3pF	±0.25%	0.5	587-1193-1-ND	2.81	16.58	47.87	587-1193-2-ND	10,000	42.51/M	UMK105CG3R3CW-F			
3.9pF	±0.25%	0.5	587-1194-1-ND	2.81	16.58	47.87	587-1194-2-ND	10,000	42.51/M	UMK105CG3R9CW-F			
4.7pF	±0.25%	0.5	587-1195-1-ND	2.81	16.58	47.87	587-1195-2-ND	10,000	42.51/M	UMK105CG4R7CW-F			
5.6pF	±0.5pF	0.5	587-1196-1-ND	2.81	16.58	47.87	587-1196-2-ND	10,000	42.51/M	UMK105CG5R6DC-F			
6.8pF	±0.5pF	0.5	587-1197-1-ND	2.81	16.58	47.87	587-1197-2-ND	10,000	42.51/M	UMK105CG6R8DC-F			
8.2pF	±0.5pF	0.5	587-1946-1-ND	2.38	13.86	39.87	587-1946-2-ND	10,000	34.01/M	UMK105CG8R2DV-F			
10pF	±0.5pF	0.5	587-1947-1-ND	2.38	13.86	39.87	587-1947-2-ND	10,000	34.01/M	UMK105CG100DV-F			
12pF	±5%	0.5	587-1948-1-ND	2.38	13.86	39.87	587-1948-2-ND						