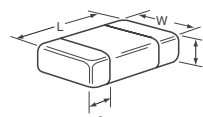


TAIYO YUDEN Multilayer Ceramic Chip Capacitors



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: • COG: -55° - 125°C • X7R: -55° - 125°C • X5R: -55° - 85°C • X5S: -55° - 85°C • X6S: -55° - 105°C • X7S: -55° - 125°C • Y5V: -30° - 85°C

Size Code	Dimensions (mm)		
	L	W	e
01005	0.40	0.20	0.10
01011	0.60	0.30	0.15
0204	0.52	1.00	—
0306	0.80	1.60	0.35
0402	1.00	0.50	0.25
0508	1.25	2.00	0.30

Size Code	Dimensions (mm)		
	L	W	e
0603	1.60	0.80	0.35
0812	1.60	3.20	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	VW DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.	
							1	10	100		Qty.	Pricing		
101005	COG (NPO)	16	0.5pF	±0.25pF	0.2	587-2270-1-ND	.29	2.18	10.19	587-2270-2-ND	15,000	26.20/M	EMK042CG0R5CC-FW	
	COG (NPO)	16	1.0pF	±0.25pF	0.2	587-2261-1-ND	.29	2.18	10.19	587-2261-2-ND	15,000	26.20/M	EMK042CG010CC-FW	
	COG (NPO)	16	1.2pF	±0.25pF	0.2	587-2276-1-ND	.29	2.18	10.19	587-2276-2-ND	15,000	26.20/M	EMK042CG1R2CC-FW	
	COG (NPO)	16	1.5pF	±0.25pF	0.2	587-2277-1-ND	.29	2.18	10.19	587-2277-2-ND	20,000	26.20/M	EMK042CG1R5CC-FW	
	COG (NPO)	16	1.8pF	±0.25pF	0.2	587-2278-1-ND	.29	2.18	10.19	587-2278-2-ND	15,000	26.20/M	EMK042CG1R8CC-FW	
	COG (NPO)	16	2.0pF	±0.25pF	0.2	587-2262-1-ND	.29	2.18	10.19	587-2262-2-ND	15,000	26.20/M	EMK042CG020CC-FW	
	COG (NPO)	16	2.2pF	±0.25pF	0.2	587-2281-1-ND	.29	2.18	10.19	587-2281-2-ND	15,000	26.20/M	EMK042CG2R2CC-FW	
	COG (NPO)	16	2.7pF	±0.25pF	0.2	587-2282-1-ND	.29	2.18	10.19	587-2282-2-ND	20,000	26.20/M	EMK042CG2R7CC-FW	
	COG (NPO)	16	3.0pF	±0.25pF	0.2	587-2263-1-ND	.29	2.18	10.19	587-2263-2-ND	15,000	26.20/M	EMK042CG030CC-FW	
	COG (NPO)	16	3.3pF	±0.25pF	0.2	587-2285-1-ND	.29	2.18	10.19	587-2285-2-ND	15,000	26.20/M	EMK042CG3R3CC-FW	
	COG (NPO)	16	3.9pF	±0.25pF	0.2	587-2286-1-ND	.29	2.18	10.19	587-2286-2-ND	15,000	26.20/M	EMK042CG3R9CC-FW	
	COG (NPO)	16	4.0pF	±0.25pF	0.2	587-2264-1-ND	.29	2.18	10.19	587-2264-2-ND	15,000	26.20/M	EMK042CG040CC-FW	
	COG (NPO)	16	4.7pF	±0.25pF	0.2	587-2288-1-ND	.29	2.18	10.19	587-2288-2-ND	20,000	26.20/M	EMK042CG4R7CC-FW	
	COG (NPO)	16	5.6pF	±0.5pF	0.2	587-2290-1-ND	.29	2.18	10.19	587-2290-2-ND	15,000	26.20/M	EMK042CG5R6DC-FW	
	COG (NPO)	16	5.0pF	±0.25pF	0.2	587-2265-1-ND	.29	2.18	10.19	587-2265-2-ND	15,000	26.20/M	EMK042CG050CC-FW	
	COG (NPO)	16	6.0pF	±0.5pF	0.2	587-2266-1-ND	.29	2.18	10.19	587-2266-2-ND	20,000	26.20/M	EMK042CG060DC-FW	
	COG (NPO)	16	6.8pF	±0.5pF	0.2	587-2292-1-ND	.29	2.18	10.19	587-2292-2-ND	15,000	26.20/M	EMK042CG6R8DC-FW	
	COG (NPO)	16	7.0pF	±0.5pF	0.2	587-2267-1-ND	.29	2.18	10.19	587-2267-2-ND	15,000	26.20/M	EMK042CG070DC-FW	
	COG (NPO)	16	8.0pF	±0.5pF	0.2	587-2268-1-ND	.29	2.18	10.19	587-2268-2-ND	15,000	26.20/M	EMK042CG080DC-FW	
	COG (NPO)	16	8.2pF	±0.5pF	0.2	587-2294-1-ND	.29	2.18	10.19	587-2294-2-ND	15,000	26.20/M	EMK042CG8R2DC-FW	
	COG (NPO)	16	9.0pF	±0.5pF	0.2	587-2269-1-ND	.29	2.18	10.19	587-2269-2-ND	15,000	26.20/M	EMK042CG090DC-FW	
	COG (NPO)	16	10pF	±0.5pF	0.2	587-2271-1-ND	.29	2.18	10.19	587-2271-2-ND	20,000	26.20/M	EMK042CG100DC-FW	
	COG (NPO)	16	12pF	±5%	0.2	587-2273-1-ND	.29	2.18	10.19	587-2273-2-ND	20,000	26.20/M	EMK042CG120JC-FW	
	COG (NPO)	16	15pF	±5%	0.2	587-2274-1-ND	.29	2.18	10.19	587-2274-2-ND	15,000	26.20/M	EMK042CG150JC-FW	
	COG (NPO)	16	18pF	±5%	0.2	587-2275-1-ND	.29	2.18	10.19	587-2275-2-ND	15,000	26.20/M	EMK042CG180JC-FW	
	COG (NPO)	16	22pF	±5%	0.2	587-2279-1-ND	.29	2.18	10.19	587-2279-2-ND	15,000	26.20/M	EMK042CG220JC-FW	
	COG (NPO)	16	27pF	±5%	0.2	587-2280-1-ND	.29	2.18	10.19	587-2280-2-ND	15,000	26.20/M	EMK042CG270JC-FW	
	COG (NPO)	16	33pF	±5%	0.2	587-2283-1-ND	.29	2.18	10.19	587-2283-2-ND	20,000	26.20/M	EMK042CG330JC-FW	
	COG (NPO)	16	39pF	±5%	0.2	587-2284-1-ND	.29	2.18	10.19	587-2284-2-ND	15,000	26.20/M	EMK042CG390JC-FW	
	COG (NPO)	16	47pF	±5%	0.2	587-2287-1-ND	.29	2.18	10.19	587-2287-2-ND	15,000	26.20/M	EMK042CG470JC-FW	
	COG (NPO)	16	56pF	±5%	0.2	587-2289-1-ND	.29	2.18	10.19	587-2289-2-ND	20,000	26.20/M	EMK042CG560JC-FW	
	COG (NPO)	16	68pF	±5%	0.2	587-2291-1-ND	.29	2.18	10.19	587-2291-2-ND	20,000	26.20/M	EMK042CG6R8DC-FW	
	COG (NPO)	16	82pF	±5%	0.2	587-2293-1-ND	.29	2.18	10.19	587-2293-2-ND	15,000	26.20/M	EMK042CG8R2DC-FW	
	COG (NPO)	16	100pF	±5%	0.2	587-2272-1-ND	.29	2.18	10.19	587-2272-2-ND	20,000	26.20/M	EMK042CG101JC-FW	
	X5R	10	100pF	±10%	0.2	587-2298-1-ND	.30	2.29	10.67	587-2298-2-ND	15,000	27.45/M	LMK042B1101KC-FW	
	X5R	10	220pF	±10%	0.2	587-2300-1-ND	.30	2.29	10.67	587-2300-2-ND	20,000	27.45/M	LMK042B1221KC-FW	
	X5R	10	470pF	±10%	0.2	587-2301-1-ND	.30	2.29	10.67	587-2301-2-ND	20,000	27.45/M	LMK042B1471KC-FW	
	X5R	10	1,000pF	±10%	0.2	587-2299-1-ND	.30	2.29	10.67	587-2299-2-ND	20,000	27.45/M	LMK042B1102KC-FW	
	X5R	6.3	2,200pF	±10%	0.2	587-2296-1-ND	.30	2.29	10.67	587-2296-2-ND	15,000	27.45/M	JMK042B1222KC-FW	
	X5R	6.3	4,700pF	±10%	0.2	587-2297-1-ND	.30	2.29	10.67	587-2297-2-ND	15,000	27.45/M	JMK042B1472KC-FW	
X5R	6.3	10,000pF	±10%	0.2	587-2295-1-ND	.30	2.29	10.67	587-2295-2-ND	15,000	27.45/M	JMK042B1103KC-FW		
201	COG (NPO)	25	5.6pF	±0.5pF	0.3	587-2305-1-ND	.14	.87	3.12	587-2305-2-ND	15,000	6.93/M	TMK063CG5R6DPGF	
	COG (NPO)	25	6.8pF	±0.5pF	0.3	587-2306-1-ND	.14	.87	3.12	587-2306-2-ND	15,000	6.93/M	TMK063CG6R8DPGF	
	COG (NPO)	25	8.2pF	±0.5pF	0.3	587-2308-1-ND	.14	.87	3.12	587-2308-2-ND	15,000	6.93/M	TMK063CG8R2DFT	
	COG (NPO)	25	10pF	±0.5pF	0.3	587-2302-1-ND	.14	.87	3.12	587-2302-2-ND	15,000	6.93/M	TMK063CG100DT-F	
	COG (NPO)	25	22pF	±5%	0.3	587-2304-1-ND	.14	.87	3.12	587-2304-2-ND	15,000	6.93/M	TMK063CG220JT-F	
	COG (NPO)	25	82pF	±5%	0.3	587-2307-1-ND	.14	.87	3.12	587-2307-2-ND	15,000	6.93/M	TMK063CG820JT-F	
	COG (NPO)	25	100pF	±5%	0.3	587-2303-1-ND	.14	.87	3.12	587-2303-2-ND	15,000	6.93/M	TMK063CG101JT-F	
	X5R	25	220pF	±10%	0.3	587-1175-1-ND	.11	.69	2.49	587-1175-2-ND	15,000	6.24/M	TMK063B1221KP-F	
	X5R	25	1,000pF	±10%	0.3	587-1177-1-ND	.14	.87	3.12	587-1177-2-ND	15,000	6.93/M	TMK063B1102KP-F	
	X5R	16	2,200pF	±10%	0.3	587-1178-1-ND	.14	.87	3.12	587-1178-2-ND	15,000	6.93/M	EMK063B1222KP-F	
	X5R	16	10,000pF	±10%	0.3	587-1180-1-ND	.14	.87	3.12	587-1180-2-ND	15,000	6.93/M	EMK063B1103KP-F	
	X5R	10	22,000pF	±10%	0.3	587-1181-1-ND	.19	1.25	4.99	587-1181-2-ND	15,000	11.79/M	LMK063B1223KP-F	
	X5R	10	47,000pF	±10%	0.3	587-2242-1-ND	.21	1.39	5.54	587-2242-2-ND	15,000	13.17/M	LMK063B1473KP-F	
	X5R	10	0.1µF	±10%	0.3	587-2241-1-ND	.23	1.52	6.10	587-2241-2-ND	15,000	14.56/M	LMK063B1104KP-F	
	X5R	10	0.22µF	±20%	0.3	587-2483-1-ND	.24	1.77	8.25	587-2483-2-ND	15,000	21.21/M	LMK063B1224MP-F	
	X5R	6.3	47,000pF	±10%	0.3	587-1182-1-ND	.19	1.25	4.99	587-1182-2-ND	15,000	11.79/M	JMK063B1473KP-F	
	X5R	6.3	0.1µF	±10%	0.3	587-1183-1-ND	.21	1.39	5.54	587-1183-2-ND	15,000	13.17/M	JMK063B1104KP-F	
	X5R	6.3	0.22µF	±20%	0.3	587-1819-1-ND	.30	2.29	10.67	587-1819-2-ND	15,000	27.72/M	JMK063B1224MP-F	
	X5R	4.0	0.47µF	±20%	0.3	587-2147-1-ND	.30	2.36	14.21	587-2147-2-ND	15,000	44.36/M	AMK063B1474MP-F	
	X7R	16	4,700pF	±10%	0.3	587-2478-1-ND	.14	.87	3.12	587-2478-2-ND	15,000	6.93/M	EMK063B1474KP-F	
	X7R	16	2,200pF	±10%	0.3	587-2479-1-ND	.14	.87	3.12	587-2479-2-ND	15,000	6.93/M	EMK063B1222KP-F	
	X7R	25	220pF	±10%	0.3	587-2482-1-ND	.11	.69	2.49	587-2482-2-ND	15,000	5.55/M	TMK063B7221KP-F	
	X7R	25	470pF	±10%	0.3	587-2481-1-ND	.11	.69	2.49	587-2481-2-ND	15,000	5.55/M	TMK063B7471KP-F	
	X7R	25	1,000pF	±10%	0.3	587-2480-1-ND	.11	.69	2.49	587-2480-2-ND	15,000	5.55/M	TMK063B7102KP-F	
	204	X7S	6.3	0.1µF	±20%	0.3	587-2152-1-ND	.29	1.94	7.76	587-2152-2-ND	10,000	19.41/M	JWK105CG710AMP-F
		X6S	4.0	0.22µF	±20%	0.3	587-2153-1-ND	.33	2.49	11.64	587-2153-2-ND	10,000	31.88/M	AWK105CG822AMP-F
	306	X7R	10	1.0µF	±10%	0.8	587-1783-1-ND	.28	2.08	9.70	587-1783-2-ND	4,000	27.72/M	LWK107B7105KA-T
		X7R	6.3	1.0µF	±10%	0.8	587-1186-1-ND	.34	2.67	13.95	587-1186-2-ND	4,000	45.05/M	JWK107B7105KA-T
		X7R	6.3	0.22µF	±20%	0.5	587-2150-1-ND	.25	1.87	8.73	587-2150-2-ND	4,000	24.95/M	JWK107B7224MV-T
		X7S	4.0	2.2µF	±20%	0.5	587-2151-1-ND	.30	2.36	12.36	587-2151-2-ND	4,000	39.50/M	AWK107C7225MV-T
	4042	COG (NPO)	50	1.0pF	±0.25pF	0.5	587-1187-1-ND	.08	.52	1.87	587-1187-2-ND	10,000	4.37/M	UMK105CG010CW-F
		COG (NPO)	50	1.2pF	±0.25pF	0.5	587-1188-1-ND	.08	.52	1.87	587-1188-2-ND	10,000	4.37/M	UMK105CG1R2CW-F
		COG (NPO)	50	1.5pF	±0.25pF	0.5	587-1189-1-ND	.08	.52	1.87	587-1189-2-ND	10,000	4.37/M	UMK105CG1R5CW-F
		COG (NPO)	50	2.2pF	±0.25pF	0.5	587-1191-1-ND	.08	.52	1.87	5			