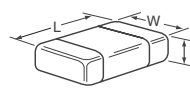


TDK Multilayer Ceramic Chip Capacitors



Features: • High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers • Monolithic structure ensures superior mechanical strength and reliability • High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances • Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes **Applications:** • Cellular phones • Portable/Handheld devices (PDA's, MP3 players, etc) • RF Module (VCO, TCXO, PA, etc) **Operating Temperature:** • COG: -55°C - 125°C • X7R: -55°C - 125°C • X5R: -55°C - 85°C • Y5V: -30°C - 85°C • X8R: -55°C - 150°C • SL: 20°C - 85°C



EIA Code	EIAJ Code	Dim. L (mm)	Dim. W (mm)	EIA Code	EIAJ Code	Dim. L (mm)	Dim. W (mm)
0201	0603	0.6	0.3	0805	2012	2.0	1.25
0306	0816	0.8	1.6	1206	3216	3.2	1.6
0402	1005	1.0	0.5	1210	3225	3.2	2.5
0508	1220	1.25	2.0	1808	4520	4.5	2.0
0603	1608	1.6	0.8	1612	4532	4.5	3.2
0612	1632	1.6	3.2	2220	5750	5.7	5.0

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.		
							10	100	500		Qty.	Pricing			
0201	COG (NPO)	50	0.5pF	±0.1pF	0.3	445-2908-1-ND	.56	3.30	9.53	445-2908-2-ND	15,000	9.44/M	C0603COG1H0R5B		
		50	0.5pF	±0.25pF	0.3	445-2918-1-ND	.37	2.17	6.27	445-2918-2-ND	15,000	5.81/M	C0603COG1H0R5C		
		50	1.0pF	±0.1pF	0.3	445-2909-1-ND	.56	3.30	9.53	445-2909-2-ND	15,000	9.44/M	C0603COG1H010B		
		50	1.0pF	±0.25pF	0.3	445-1760-1-ND	.37	2.17	6.27	445-1760-2-ND	15,000	6.02/M	C0603COG1H010C		
		50	1.2pF	±0.25pF	0.3	445-2919-1-ND	.37	2.17	6.27	445-2919-2-ND	15,000	5.81/M	C0603COG1H1R2C		
		50	1.5pF	±0.1pF	0.3	445-2910-1-ND	.56	3.30	9.53	445-2910-2-ND	15,000	9.44/M	C0603COG1H1R5B		
		50	1.5pF	±0.25pF	0.3	445-1770-1-ND	.37	2.17	6.27	445-1770-2-ND	15,000	6.02/M	C0603COG1H1R5C		
		50	1.8pF	±0.25pF	0.3	445-2920-1-ND	.37	2.17	6.27	445-2920-2-ND	15,000	5.81/M	C0603COG1H1R8C		
		50	2.0pF	±0.1pF	0.3	445-2911-1-ND	.56	3.30	9.53	445-2911-2-ND	15,000	9.44/M	C0603COG1H020B		
		50	2.0pF	±0.25pF	0.3	445-1761-1-ND	.37	2.17	6.27	445-1761-2-ND	15,000	6.02/M	C0603COG1H020C		
		50	2.2pF	±0.1pF	0.3	445-2912-1-ND	.56	3.30	9.53	445-2912-2-ND	15,000	9.44/M	C0603COG1H2R2C		
		50	2.2pF	±0.25pF	0.3	445-1771-1-ND	.37	2.17	6.27	445-1771-2-ND	15,000	6.02/M	C0603COG1H2R2C		
		50	2.7pF	±0.25pF	0.3	445-2921-1-ND	.37	2.17	6.27	445-2921-2-ND	15,000	5.81/M	C0603COG1H2R7C		
		50	3.0pF	±0.25pF	0.3	445-1762-1-ND	.37	2.17	6.27	445-1762-2-ND	15,000	6.02/M	C0603COG1H030C		
		50	3.3pF	±0.1pF	0.3	445-2914-1-ND	.56	3.30	9.53	445-2914-2-ND	15,000	9.44/M	C0603COG1H3R3B		
		50	3.3pF	±0.25pF	0.3	445-1772-1-ND	.37	2.17	6.27	445-1772-2-ND	15,000	6.02/M	C0603COG1H3R3C		
		50	3.9pF	±0.25pF	0.3	445-2922-1-ND	.37	2.17	6.27	445-2922-2-ND	15,000	5.81/M	C0603COG1H3R9C		
		50	4.0pF	±0.1pF	0.3	445-2915-1-ND	.56	3.30	9.53	—	—	—	—	C0603COG1H040B	
		50	4.0pF	±0.25pF	0.3	445-1763-1-ND	.37	2.17	6.27	445-1763-2-ND	15,000	6.02/M	C0603COG1H040C		
		50	4.7pF	±0.1pF	0.3	445-2916-1-ND	.56	3.30	9.53	—	—	—	—	C0603COG1H4R7B	
		50	4.7pF	±0.25pF	0.3	445-1773-1-ND	.37	2.17	6.27	445-1773-2-ND	15,000	6.02/M	C0603COG1H4R7C		
		50	5.0pF	±0.1pF	0.3	445-2917-1-ND	.56	3.30	9.53	—	—	—	—	C0603COG1H050B	
		50	5.0pF	±0.25pF	0.3	445-1764-1-ND	.37	2.17	6.27	445-1764-2-ND	15,000	6.02/M	C0603COG1H050C		
		50	5.6pF	±0.25pF	0.3	445-2923-1-ND	.37	2.17	6.27	445-2923-2-ND	15,000	5.81/M	C0603COG1H5R6C		
		50	6.0pF	±0.5pF	0.3	445-1765-1-ND	.37	2.17	6.27	445-1765-2-ND	15,000	6.02/M	C0603COG1H060D		
		50	6.8pF	±0.25pF	0.3	445-2925-1-ND	.37	2.17	6.27	445-2925-2-ND	15,000	5.81/M	C0603COG1H6R8C		
		50	6.8pF	±0.5pF	0.3	445-1774-1-ND	.37	2.17	6.27	445-1774-2-ND	15,000	6.02/M	C0603COG1H6R8D		
		50	7.0pF	±0.25pF	0.3	445-2926-1-ND	.37	2.17	6.27	445-2926-2-ND	15,000	5.81/M	C0603COG1H070C		
		50	7.0pF	±0.5pF	0.3	445-1766-1-ND	.37	2.17	6.27	445-1766-2-ND	15,000	6.02/M	C0603COG1H070D		
		50	8.0pF	±0.25pF	0.3	445-2927-1-ND	.37	2.17	6.27	—	—	—	—	C0603COG1H080C	
		50	8.0pF	±0.5pF	0.3	445-1767-1-ND	.37	2.17	6.27	445-1767-2-ND	15,000	6.02/M	C0603COG1H080D		
		50	8.2pF	±0.25pF	0.3	445-2928-1-ND	.37	2.17	6.27	445-2928-2-ND	15,000	5.81/M	C0603COG1H8R2C		
		50	9.0pF	±0.25pF	0.3	445-2929-1-ND	.37	2.17	6.27	445-2929-2-ND	15,000	5.81/M	C0603COG1H090C		
		50	9.0pF	±0.5pF	0.3	445-1768-1-ND	.37	2.17	6.27	445-1768-2-ND	15,000	6.02/M	C0603COG1H090D		
		50	10pF	±0.25pF	0.3	445-2930-1-ND	.37	2.17	6.27	445-2930-2-ND	15,000	5.81/M	C0603COG1H100C		
		50	10pF	±0.5pF	0.3	445-1769-1-ND	.37	2.17	6.27	445-1769-2-ND	15,000	6.02/M	C0603COG1H100D		
		50	11pF	±5%	0.3	445-2931-1-ND	.37	2.17	6.27	445-2931-2-ND	15,000	5.81/M	C0603COG1H110J		
		50	12pF	±5%	0.3	445-1775-1-ND	.37	2.17	6.27	445-1775-2-ND	15,000	6.02/M	C0603COG1H120J		
		50	13pF	±5%	0.3	445-2932-1-ND	.37	2.17	6.27	—	—	—	—	C0603COG1H130J	
		50	15pF	±5%	0.3	445-1776-1-ND	.37	2.17	6.27	445-1776-2-ND	15,000	6.02/M	C0603COG1H150J		
		50	16pF	±5%	0.3	445-2933-1-ND	.37	2.17	6.27	445-2933-2-ND	15,000	5.81/M	C0603COG1H160J		
		50	18pF	±5%	0.3	445-1777-1-ND	.37	2.17	6.27	445-1777-2-ND	15,000	6.02/M	C0603COG1H180J		
		50	20pF	±5%	0.3	445-2934-1-ND	.37	2.17	6.27	445-2934-2-ND	15,000	5.81/M	C0603COG1H200J		
		50	22pF	±5%	0.3	445-1778-1-ND	.37	2.17	6.27	445-1778-2-ND	15,000	6.02/M	C0603COG1H220J		
		50	24pF	±5%	0.3	445-2935-1-ND	.37	2.17	6.27	445-2935-2-ND	15,000	5.81/M	C0603COG1H240J		
		50	27pF	±5%	0.3	445-1779-1-ND	.37	2.17	6.27	445-1779-2-ND	15,000	6.02/M	C0603COG1H270J		
		50	30pF	±5%	0.3	445-2936-1-ND	.37	2.17	6.27	—	—	—	—	C0603COG1H300J	
		50	33pF	±5%	0.3	445-1780-1-ND	.37	2.17	6.27	445-1780-2-ND	15,000	6.02/M	C0603COG1H330J		
		50	36pF	±5%	0.3	445-2937-1-ND	.37	2.17	6.27	445-2937-2-ND	15,000	5.81/M	C0603COG1H360J		
		50	39pF	±5%	0.3	445-1781-1-ND	.37	2.17	6.27	445-1781-2-ND	15,000	6.02/M	C0603COG1H390J		
		50	43pF	±5%	0.3	445-2938-1-ND	.37	2.17	6.27	445-2938-2-ND	15,000	5.81/M	C0603COG1H430J		
		50	47pF	±5%	0.3	445-1782-1-ND	.37	2.17	6.27	445-1782-2-ND	15,000	6.02/M	C0603COG1H470J		
		50	51pF	±5%	0.3	445-2939-1-ND	.37	2.17	6.27	445-2939-2-ND	15,000	5.81/M	C0603COG1H510J		
		50	56pF	±5%	0.3	445-1783-1-ND	.37	2.17	6.27	445-1783-2-ND	15,000	6.02/M	C0603COG1H560J		
		50	68pF	±5%	0.3	445-1784-1-ND	.37	2.17	6.27	445-1784-2-ND	15,000	6.02/M	C0603COG1H680J		
		50	75pF	±5%	0.3	445-2941-1-ND	.37	2.17	6.27	445-2941-2-ND	15,000	5.81/M	C0603COG1H750J		
		50	82pF	±5%	0.3	445-1785-1-ND	.37	2.17	6.27	445-1785-2-ND	15,000	6.02/M	C0603COG1H820J		
		50	91pF	±5%	0.3	445-2942-1-ND	.37	2.17	6.27	—	—	—	—	C0603COG1H910J	
		50	100pF	±5%	0.3	445-1786-1-ND	.37	2.17	6.27	445-1786-2-ND	15,000	6.02/M	C0603COG1H101J		
		X5R	COG (NPO)	50	100pF	±10%	0.3	445-1787-1-ND	.36	2.11	6.07	445-1787-2-ND	15,000	5.83/M	C0603X5R1H101K
				50	220pF	±10%	0.3	445-1788-1-ND	.36	2.11	6.07	445-1788-2-ND	15,000	5.83/M	C0603X5R1H221K
				50	470pF	±10%	0.3	445-1789-1-ND	.36	2.11	6.07	445-1789-2-ND	15,000	5.83/M	C0603X5R1H471K
				25	1000pF	±10%	0.3	445-1790-1-ND	.37	2.20	6.35	445-1790-2-ND	15,000	6.09/M	C0603X5R1E102K
				25	2200pF	±10%	0.3	445-1791-1-ND	.36	2.11	6.07	445-1791-2-ND	15,000	5.83/M	C0603X5R1E222K
				16	4700pF	±10%	0.3	445-1792-1-ND	.36	2.11	6.07	445-1792-2-ND	15,000	5.83/M	C0603X5R1C472K
				10	10000pF	±10%	0.3	445-1793-1-ND	.36	2.11	6.07	445-1793-2-ND	15,000	5.83/M	C0603X5R1A103K
				6.3	22000pF	±10%	0.3	445-1794-1-ND	.44	2.61	7.53	445-1794-2-ND	15,000	7.23/M	C0603X5R0J223K
				6.3	47000pF	±10%	0.3	445-1795-1-ND	.42	2.50	7.22	445-1795-2-ND	15,000	6.93/M	C0603X5R0J473K
				6.3	0.1µF	±10%	0.3	445-1796-1-ND	.52	3.07	8.85	445-1796-2-ND	15,000	8.50/M	C0603X5R0J104K
		Y5V	16	10000pF	+80/-20%	0.3	445-1797-1-ND	.36	2.11	6.07	445-1797-2-ND	15,000	5.83/M	C0603Y5V1C103Z	
		0306	X7R	16	10000pF	±10%	0.5	445-1798-1-ND	2.13	12.59	36.32	445-1798-2-ND	4,000	34.87/M	C0816X7R1C103K
				16	22000pF	±10%	0.5	445-1799-1-ND	2.30	13.60	39.22	445-1799-2-ND	4,000	37.65/M	C0816X7R1C223K
				16	47000pF	±10%	0.5	445-1800-1-ND	2.56	15.11	43.57	445-1800-2-ND	4,000	41.83/M	C0816X7R1C473K
				16	0.1µF	±10%	0.5	445-1801-1-ND	2.73	16.11	46.47	445-1801-2			



Multilayer Ceramic Chip Capacitors (Cont.)



Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.	
							10	100	500		Qty.	Pricing		
0402	COG (NPO)	50	27pF	±5%	0.5	445-1240-1-ND	.40	2.38	6.86	445-1240-2-ND	10,000	6.59/M	C1005COG1H270J	
		50	33pF	±5%	0.5	445-1241-1-ND	.40	2.38	6.86	445-1241-2-ND	10,000	6.59/M	C1005COG1H330J	
		50	39pF	±5%	0.5	445-1242-1-ND	.40	2.38	6.86	445-1242-2-ND	10,000	6.59/M	C1005COG1H390J	
		50	47pF	±5%	0.5	445-1243-1-ND	.38	2.29	6.60	445-1243-2-ND	10,000	6.34/M	C1005COG1H470J	
		50	56pF	±5%	0.5	445-1244-1-ND	.40	2.38	6.86	445-1244-2-ND	10,000	6.59/M	C1005COG1H560J	
		50	68pF	±5%	0.5	445-1245-1-ND	.40	2.38	6.86	445-1245-2-ND	10,000	6.59/M	C1005COG1H680J	
		50	82pF	±5%	0.5	445-1246-1-ND	.40	2.38	6.86	445-1246-2-ND	10,000	6.59/M	C1005COG1H820J	
		50	100pF	±5%	0.5	445-1247-1-ND	.38	2.29	6.60	445-1247-2-ND	10,000	6.34/M	C1005COG1H101J	
		50	120pF	±5%	0.5	445-1248-1-ND	.45	2.66	7.67	445-1248-2-ND	10,000	7.36/M	C1005COG1H121J	
		50	150pF	±5%	0.5	445-1249-1-ND	.45	2.66	7.67	445-1249-2-ND	10,000	7.36/M	C1005COG1H151J	
		50	180pF	±5%	0.5	445-1250-1-ND	.48	2.83	8.17	445-1250-2-ND	10,000	7.85/M	C1005COG1H181J	
		50	220pF	±5%	0.5	445-1251-1-ND	.48	2.83	8.17	445-1251-2-ND	10,000	7.85/M	C1005COG1H221J	
		50	270pF	±5%	0.5	445-1252-1-ND	.56	3.30	9.53	445-1252-2-ND	10,000	9.15/M	C1005COG1H271J	
		50	330pF	±5%	0.5	445-1253-1-ND	.56	3.30	9.53	445-1253-2-ND	10,000	9.15/M	C1005COG1H331J	
		50	390pF	±5%	0.5	445-2655-1-ND	.64	3.78	10.89	—	—	—	—	C1005COG1H391J
		25	680pF	±5%	0.5	445-2653-1-ND	.72	4.25	12.25	—	—	—	—	C1005COG1E681J
		25	820pF	±5%	0.5	445-2654-1-ND	.80	4.72	13.61	445-2654-2-ND	10,000	13.07/M	C1005COG1E821J	
		25	1000pF	±5%	0.5	445-2651-1-ND	.80	4.72	13.61	445-2651-2-ND	10,000	13.07/M	C1005COG1E102J	
		50	220pF	±10%	0.5	445-1254-1-ND	.40	2.38	6.86	445-1254-2-ND	10,000	6.59/M	C1005X7R1H221K	
		50	470pF	±10%	0.5	445-1255-1-ND	.40	2.38	6.86	445-1255-2-ND	10,000	6.59/M	C1005X7R1H471K	
	50	1000pF	±10%	0.5	445-1256-1-ND	.38	2.29	6.60	445-1256-2-ND	10,000	6.34/M	C1005X7R1H102K		
	50	2200pF	±10%	0.5	445-1257-1-ND	.40	2.38	6.86	—	—	—	—	C1005X7R1H222K	
	50	4700pF	±10%	0.5	445-1258-1-ND	.40	2.38	6.86	445-1258-2-ND	10,000	6.59/M	C1005X7R1H472K		
	25	470pF	±10%	0.5	445-1259-1-ND	.40	2.38	6.86	445-1259-2-ND	10,000	6.59/M	C1005X7R1E472K		
	25	10000pF	±10%	0.5	445-1260-1-ND	.40	2.38	6.86	445-1260-2-ND	10,000	6.59/M	C1005X7R1E103K		
	25	22000pF	±10%	0.5	445-1261-1-ND	.56	3.30	9.53	445-1261-2-ND	10,000	9.15/M	C1005X7R1E223K		
	16	10000pF	±10%	0.5	445-1262-1-ND	.38	2.29	6.60	445-1262-2-ND	10,000	6.34/M	C1005X7R1C103K		
	16	22000pF	±10%	0.5	445-1263-1-ND	.50	2.98	8.59	445-1263-2-ND	10,000	8.25/M	C1005X7R1C223K		
	16	47000pF	±10%	0.5	445-1264-1-ND	.86	5.10	14.70	445-1264-2-ND	10,000	14.12/M	C1005X7R1C473K		
	10	0.1µF	±10%	0.5	445-1265-1-ND	1.05	6.19	17.83	445-1265-2-ND	10,000	17.12/M	C1005X5R1A104K		
	6.3	0.1µF	±10%	0.5	445-1266-1-ND	1.05	6.19	17.83	445-1266-2-ND	10,000	17.12/M	C1005X5R0J104K		
	6.3	0.22µF	±20%	0.5	445-1267-1-ND	2.00	11.80	34.03	445-1267-2-ND	10,000	32.67/M	C1005X5R0J224K		
	6.3	1.0µF	±20%	0.5	445-1415-1-ND	1.44	8.49	24.50	445-1415-2-ND	10,000	23.53/M	C1005X5R0J105M		
	4.0	2.2µF	±20%	0.5	445-3882-1-ND	2.08	12.27	35.39	445-3882-2-ND	10,000	34.13/M	C1005X5R0G225M		
	50	10000pF	+80/-20%	0.5	445-3447-1-ND	.20	1.18	3.40	445-3447-2-ND	10,000	3.63/M	C1005Y5V1H103Z		
	25	0.1µF	+80/-20%	0.5	445-3445-1-ND	.20	1.18	3.40	445-3445-2-ND	10,000	3.63/M	C1005Y5V1E104Z		
	25	0.22µF	+80/-20%	0.5	445-3446-1-ND	.40	2.36	6.81	445-3446-2-ND	10,000	6.54/M	C1005Y5V1E224Z		
	16	0.1µF	+80/-20%	0.5	445-1268-1-ND	.20	1.18	3.40	445-1268-2-ND	10,000	3.27/M	C1005Y5V1C104Z		
	16	0.22µF	+80/-20%	0.5	445-3444-1-ND	.40	2.36	6.81	445-3444-2-ND	10,000	6.54/M	C1005Y5V1C224Z		
	10	0.22µF	+80/-20%	0.5	445-3442-1-ND	.40	2.36	6.81	445-3442-2-ND	10,000	6.54/M	C1005Y5V1A224Z		
	10	0.47µF	+80/-20%	0.5	445-3443-1-ND	.40	2.36	6.81	445-3443-2-ND	10,000	6.54/M	C1005Y5V1A474Z		
	6.3	1.0µF	+80/-20%	0.5	445-3441-1-ND	.40	2.36	6.81	445-3441-2-ND	10,000	6.54/M	C1005Y5V0J105Z		
	50	150pF	±10%	0.5	445-3416-1-ND	1.20	7.08	20.42	445-3416-2-ND	10,000	19.61/M	C1005X8R1H151K		
	50	220pF	±10%	0.5	445-2495-1-ND	1.20	7.08	20.42	445-2495-2-ND	10,000	19.61/M	C1005X8R1H221K		
	50	330pF	±10%	0.5	445-3418-1-ND	1.20	7.08	20.42	445-3418-2-ND	10,000	19.61/M	C1005X8R1H331K		
	50	470pF	±10%	0.5	445-2496-1-ND	1.20	7.08	20.42	—	—	—	—	C1005X8R1H471K	
	50	680pF	±10%	0.5	445-3420-1-ND	1.20	7.08	20.42	445-3420-2-ND	10,000	19.61/M	C1005X8R1H681K		
	50	1500pF	±10%	0.5	445-3417-1-ND	1.20	7.08	20.42	445-3417-2-ND	10,000	19.61/M	C1005X8R1H152K		
	50	1000pF	±10%	0.5	445-2497-1-ND	1.20	7.08	20.42	445-2497-2-ND	10,000	19.61/M	C1005X8R1H102K		
	50	2200pF	±10%	0.5	445-2498-1-ND	1.20	7.08	20.42	—	—	—	—	C1005X8R1H222K	
	50	4700pF	±10%	0.5	445-2499-1-ND	1.20	7.08	20.42	—	—	—	—	C1005X8R1H472K	
	50	3300pF	±10%	0.5	445-3419-1-ND	1.20	7.08	20.42	445-3419-2-ND	10,000	19.61/M	C1005X8R1H332K		
	25	6800pF	±10%	0.5	445-3415-1-ND	1.20	7.08	20.42	445-3415-2-ND	10,000	19.61/M	C1005X8R1E682K		
	25	0.01µF	±10%	0.5	445-2494-1-ND	1.20	7.08	20.42	445-2494-2-ND	10,000	19.61/M	C1005X8R1E103K		
	10	1200pF	±5%	0.5	445-2657-1-ND	1.12	6.61	19.06	—	—	—	—	C1005SL1A122J	
	10	1500pF	±5%	0.5	445-2658-1-ND	1.12	6.61	19.06	445-2658-2-ND	10,000	18.15/M	C1005SL1A152J		
	10	1800pF	±5%	0.5	445-2659-1-ND	1.36	8.02	23.14	—	—	—	—	C1005SL1A182J	
	10	2700pF	±5%	0.5	445-2661-1-ND	1.60	9.44	27.23	445-2661-2-ND	10,000	26.14/M	C1005SL1A272J		
	10	3300pF	±5%	0.5	445-2662-1-ND	1.60	9.44	27.23	—	—	—	—	C1005SL1A332J	
	10	3900pF	±5%	0.5	445-2663-1-ND	1.60	9.44	27.23	—	—	—	—	C1005SL1A392J	
	0508	X7R	50	10000pF	±10%	0.85	445-1803-1-ND	2.39	14.10	40.68	445-1803-2-ND	4,000	39.05/M	C1220X7R1H103K
			50	22000pF	±10%	0.85	445-1804-1-ND	2.56	15.11	43.57	445-1804-2-ND	4,000	41.83/M	C1220X7R1H223K
			50	47000pF	±10%	0.85	445-1805-1-ND	2.73	16.11	46.47	445-1805-2-ND	4,000	44.62/M	C1220X7R1H473K
			25	0.1µF	±10%	0.85	445-1806-1-ND	2.90	17.12	49.39	445-1806-2-ND	4,000	47.42/M	C1220X7R1E104K
			16	0.22µF	±10%	0.85	445-1807-1-ND	3.07	18.13	52.29	445-1807-2-ND	4,000	50.20/M	C1220X7R1C224K
		X5R	10	0.47µF	±10%	0.85	445-1808-1-ND	3.24	19.14	55.20	445-1808-2-ND	4,000	52.99/M	C1220X5R1A474K
			10	1.0µF	±10%	0.85	445-1809-1-ND	3.40	20.14	58.10	445-1809-2-ND	4,000	55.78/M	C1220X5R1A105K
			250	100pF	±5%	0.8	445-2314-1-ND	.46	2.74	7.92	445-2314-2-ND	4,000	7.26/M	C1608COG2E101J
			250	150pF	±5%	0.8	445-2315-1-ND	.52	3.09	8.92	445-2315-2-ND	4,000	8.72/M	C1608COG2E151J
			250	220pF	±5%	0.8	445-2316-1-ND	.58	3.43	9.91	445-2316-2-ND	4,000	9.44/M	C1608COG2E221J
	250	330pF	±5%	0.8	445-2317-1-ND	.64	3.78	10.89	445-2317-2-ND	4,000	10.17/M	C1608COG2E331J		
	250	470pF	±5%	0.8	445-2318-1-ND	.70	4.12	11.88	445-2318-2-ND	4,000	11.62/M	C1608COG2E471J		
	250	680pF	±5%	0.8	445-2319-1-ND	.76	4.46	12.88	445-2319-2-ND	4,000	12.35/M	C1608COG2E681J		
	100	100pF	±5%	0.8	445-2306-1-ND	.36	2.13	6.13	445-2306-2-ND	4,000	5.81/M	C1608COG2A101J		
	100	150pF	±5%	0.8	445-2307-1-ND	.42	2.48	7.14	445-2307-2-ND	4,000	6.54/M	C1608COG2A151J		
	100	220pF	±5%	0.8	445-2308-1-ND	.48	2.83	8.17	445-2308-2-ND	4,000	7.99/M	C1608COG2A221J		
	100	330pF	±5%	0.8	445-2309-1-ND	.54	3.19	9.19	445-2309-2-ND	4,000	8.72/M	C1608COG2A331J		
	0603	COG (NPO)	100	470pF	±5%	0.8	445-2310-1-ND	.58	3.43	9.91	445-2310-2-ND	4,000	9.44/M	C1608COG2A471J
			100	680pF	±5%	0.8	445-2311-1-ND	.64	3.78	10.89	445-2311-2-ND	4,000	10.17/M	C1608COG2A681J
			100	1000pF	±5%	0.8	445-2312-1-ND	.72						



Multilayer Ceramic Chip Capacitors (Cont.)



Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
6063	COG (NPO)	50	39pF	±5%	0.8	445-1276-1-ND	.37	2.20	6.35	445-1276-2-ND	4,000	6.09/M	C1608COG1H390J
		50	47pF	±5%	0.8	445-1277-1-ND	.35	2.06	5.95	445-1277-2-ND	4,000	5.71/M	C1608COG1H470J
		50	56pF	±5%	0.8	445-1278-1-ND	.37	2.20	6.35	445-1278-2-ND	4,000	6.09/M	C1608COG1H560J
		50	68pF	±5%	0.8	445-1279-1-ND	.37	2.20	6.35	445-1279-2-ND	4,000	6.09/M	C1608COG1H680J
		50	82pF	±5%	0.8	445-1280-1-ND	.37	2.20	6.35	445-1280-2-ND	4,000	6.09/M	C1608COG1H820J
		50	100pF	±5%	0.8	445-1281-1-ND	.35	2.06	5.95	445-1281-2-ND	4,000	5.71/M	C1608COG1H101J
		50	120pF	±5%	0.8	445-1282-1-ND	.37	2.17	6.27	445-1282-2-ND	4,000	6.02/M	C1608COG1H121J
		50	150pF	±5%	0.8	445-1283-1-ND	.37	2.20	6.35	445-1283-2-ND	4,000	6.09/M	C1608COG1H151J
		50	180pF	±5%	0.8	445-1284-1-ND	.43	2.52	7.27	445-1284-2-ND	4,000	6.98/M	C1608COG1H181J
		50	220pF	±5%	0.8	445-1285-1-ND	.43	2.52	7.27	445-1285-2-ND	4,000	6.98/M	C1608COG1H221J
		50	270pF	±5%	0.8	445-1286-1-ND	.50	2.98	8.59	445-1286-2-ND	4,000	8.25/M	C1608COG1H271J
		50	330pF	±5%	0.8	445-1287-1-ND	.50	2.98	8.59	445-1287-2-ND	4,000	8.25/M	C1608COG1H331J
		50	390pF	±5%	0.8	445-1288-1-ND	.58	3.43	9.91	445-1288-2-ND	4,000	9.52/M	C1608COG1H391J
		50	470pF	±5%	0.8	445-1289-1-ND	.58	3.43	9.91	445-1289-2-ND	4,000	9.52/M	C1608COG1H471J
		50	560pF	±5%	0.8	445-1290-1-ND	.66	3.99	11.23	445-1290-2-ND	4,000	10.78/M	C1608COG1H561J
		50	680pF	±5%	0.8	445-1291-1-ND	.66	3.89	11.23	445-1291-2-ND	4,000	10.78/M	C1608COG1H681J
		50	820pF	±5%	0.8	445-1292-1-ND	.81	4.81	13.87	445-1292-2-ND	4,000	13.32/M	C1608COG1H821J
		50	1000pF	±5%	0.8	445-1293-1-ND	.56	3.30	9.53	445-1293-2-ND	4,000	9.15/M	C1608COG1H102J
		50	1200pF	±5%	0.8	445-1294-1-ND	1.04	6.13	17.70	445-1294-2-ND	4,000	16.99/M	C1608COG1H122J
		50	1500pF	±5%	0.8	445-1295-1-ND	1.04	6.13	17.70	445-1295-2-ND	4,000	16.99/M	C1608COG1H152J
		50	1800pF	±5%	0.8	445-1296-1-ND	1.45	8.57	24.73	445-1296-2-ND	4,000	23.75/M	C1608COG1H182J
		50	2200pF	±5%	0.8	445-1297-1-ND	1.41	8.31	23.99	445-1297-2-ND	4,000	23.03/M	C1608COG1H222J
		50	2700pF	±5%	0.8	445-2669-1-ND	1.60	9.44	27.23	445-2669-2-ND	4,000	26.14/M	C1608COG1H272J
		50	3300pF	±5%	0.8	445-1599-1-ND	1.60	9.44	27.23	445-1599-2-ND	4,000	26.14/M	C1608COG1H332J
		25	3900pF	±5%	0.8	445-2665-1-ND	2.00	11.80	34.03	445-2665-2-ND	4,000	32.67/M	C1608COG1E392J
		25	4700pF	±5%	0.8	445-2712-1-ND	2.00	11.80	34.03	445-2712-2-ND	4,000	32.67/M	C1608COG1E472J
		25	5600pF	±5%	0.8	445-2666-1-ND	2.40	14.16	40.84	445-2666-2-ND	4,000	39.21/M	C1608COG1E562J
		25	6800pF	±5%	0.8	445-2667-1-ND	2.40	14.16	40.84	445-2667-2-ND	4,000	39.21/M	C1608COG1E682J
		25	8200pF	±5%	0.8	445-2668-1-ND	2.80	16.52	47.65	445-2668-2-ND	4,000	45.74/M	C1608COG1E822J
		25	10000pF	±5%	0.8	445-2664-1-ND	2.80	16.52	47.65	445-2664-2-ND	4,000	45.74/M	C1608COG1E103J
	100	1000pF	±10%	0.8	445-1298-1-ND	.83	4.94	14.27	445-1298-2-ND	4,000	13.70/M	C1608X7R2A102K	
	100	1000pF	±20%	0.8	445-1299-1-ND	.79	4.68	13.47	445-1299-2-ND	4,000	12.94/M	C1608X7R2A102M	
	100	2200pF	±10%	0.8	445-1300-1-ND	.64	3.78	10.89	445-1300-2-ND	4,000	10.46/M	C1608X7R2A222K	
	100	2200pF	±20%	0.8	445-1301-1-ND	.64	3.78	10.89	445-1301-2-ND	4,000	10.46/M	C1608X7R2A222M	
	100	4700pF	±10%	0.8	445-1302-1-ND	.64	3.78	10.89	445-1302-2-ND	4,000	10.46/M	C1608X7R2A472K	
	100	4700pF	±20%	0.8	445-1303-1-ND	.64	3.78	10.89	445-1303-2-ND	4,000	10.46/M	C1608X7R2A472M	
	100	10000pF	±10%	0.8	445-1304-1-ND	.70	4.12	11.88	445-1304-2-ND	4,000	11.41/M	C1608X7R2A103K	
	100	10000pF	±20%	0.8	445-1305-1-ND	.70	4.12	11.88	445-1305-2-ND	4,000	11.41/M	C1608X7R2A103M	
	100	22000pF	±10%	0.8	445-2275-1-ND	.93	5.50	15.85	445-2275-2-ND	4,000	15.25/M	C1608X7R2A223K	
	50	220pF	±10%	0.8	445-1306-1-ND	.37	2.20	6.35	445-1306-2-ND	4,000	6.09/M	C1608X7R1H221K	
	50	470pF	±10%	0.8	445-1307-1-ND	.37	2.20	6.35	445-1307-2-ND	4,000	6.09/M	C1608X7R1H471K	
	50	1000pF	±10%	0.8	445-1308-1-ND	.35	2.06	5.95	445-1308-2-ND	4,000	5.71/M	C1608X7R1H102K	
	50	2200pF	±10%	0.8	445-1309-1-ND	.37	2.20	6.35	445-1309-2-ND	4,000	6.09/M	C1608X7R1H222K	
	50	4700pF	±10%	0.8	445-1310-1-ND	.37	2.20	6.35	445-1310-2-ND	4,000	6.09/M	C1608X7R1H472K	
	50	10000pF	±10%	0.8	445-1311-1-ND	.35	2.06	5.95	445-1311-2-ND	4,000	5.71/M	C1608X7R1H103K	
	50	22000pF	±10%	0.8	445-1312-1-ND	.50	2.98	8.59	445-1312-2-ND	4,000	8.25/M	C1608X7R1H223K	
	50	47000pF	±10%	0.8	445-1313-1-ND	.73	4.35	12.55	445-1313-2-ND	4,000	12.05/M	C1608X7R1H473K	
	50	0.1µF	±10%	0.8	445-1314-1-ND	.81	4.81	13.87	445-1314-2-ND	4,000	13.32/M	C1608X7R1H104K	
	25	47000pF	±10%	0.8	445-1315-1-ND	.73	4.35	12.55	445-1315-2-ND	4,000	12.05/M	C1608X7R1E473K	
	25	0.1µF	±10%	0.8	445-1316-1-ND	.68	4.03	11.62	445-1316-2-ND	4,000	11.16/M	C1608X7R1E104K	
	16	0.1µF	±10%	0.8	445-1317-1-ND	.68	4.03	11.62	445-1317-2-ND	4,000	11.16/M	C1608X7R1C104K	
	16	0.22µF	±10%	0.8	445-1318-1-ND	.60	3.54	10.21	445-1318-2-ND	4,000	9.80/M	C1608X7R1C224K	
	16	1.0µF	±10%	0.8	445-1604-1-ND	.84	4.96	14.29	445-1604-2-ND	4,000	13.80/M	C1608X7R1C105K	
	16	1.0µF	±10%	0.8	445-1416-1-ND	.60	3.54	10.21	445-1416-2-ND	4,000	9.80/M	C1608X5R1C105K	
	10	0.22µF	±10%	0.8	445-1319-1-ND	1.30	7.70	22.19	445-1319-2-ND	4,000	21.30/M	C1608X5R1A224K	
	10	0.47µF	±10%	0.8	445-1320-1-ND	2.00	11.80	34.03	445-1320-2-ND	4,000	32.67/M	C1608X5R1A474K	
	10	1.0µF	±10%	0.8	445-1321-1-ND	1.60	9.44	27.23	445-1321-2-ND	4,000	26.14/M	C1608X5R1A105K	
	6.3	1.0µF	±10%	0.8	445-1322-1-ND	1.60	9.44	27.23	445-1322-2-ND	4,000	26.14/M	C1608X5R0J105K	
	6.3	2.2µF	±20%	0.8	445-1323-1-ND	2.21	13.02	37.57	445-1323-2-ND	4,000	36.07/M	C1608X5R0J225M	
	6.3	4.7µF	±20%	0.8	445-1417-1-ND	2.40	14.16	40.84	445-1417-2-ND	4,000	39.21/M	C1608X5R0J475M	
	50	0.1µF	+80/-20%	0.8	445-1324-1-ND	.30	1.75	5.04	445-1324-2-ND	4,000	4.84/M	C1608Y5V1H104Z	
	50	0.22µF	+80/-20%	0.8	445-3455-1-ND	.60	3.54	10.21	445-3455-2-ND	4,000	10.17/M	C1608Y5V1H224Z	
	50	0.47µF	+80/-20%	0.8	445-3456-1-ND	.60	3.54	10.21	445-3456-2-ND	4,000	10.17/M	C1608Y5V1H474Z	
	25	0.1µF	+80/-20%	0.8	445-1325-1-ND	.22	1.28	3.67	445-1325-2-ND	4,000	3.53/M	C1608Y5V1E104Z	
	25	0.22µF	+80/-20%	0.8	445-3453-1-ND	.48	2.83	8.17	445-3453-2-ND	4,000	7.99/M	C1608Y5V1E224Z	
	25	0.47µF	+80/-20%	0.8	445-3454-1-ND	.56	3.30	9.53	445-3454-2-ND	4,000	9.44/M	C1608Y5V1E474Z	
	25	1.0µF	+80/-20%	0.8	445-3452-1-ND	.56	3.30	9.53	445-3452-2-ND	4,000	9.44/M	C1608Y5V1E105Z	
	16	0.1µF	+80/-20%	0.8	445-1326-1-ND	.24	1.42	4.09	445-1326-2-ND	4,000	3.92/M	C1608Y5V1C104Z	
	16	1.0µF	+80/-20%	0.8	445-1327-1-ND	.48	2.83	8.17	445-1327-2-ND	4,000	7.84/M	C1608Y5V1C105Z	
	16	2.2µF	+80/-20%	0.8	445-3451-1-ND	.80	4.72	13.61	445-3451-2-ND	4,000	13.07/M	C1608Y5V1C225Z	
	10	1.0µF	+80/-20%	0.8	445-1328-1-ND	.40	2.36	6.81	445-1328-2-ND	4,000	6.54/M	C1608Y5V1A105Z	
	10	2.2µF	+80/-20%	0.8	445-3450-1-ND	.80	4.72	13.61	445-3450-2-ND	4,000	13.07/M	C1608Y5V1A225Z	
	6.3	4.7µF	+80/-20%	0.8	445-3449-1-ND	1.20	7.08	20.42	445-3449-2-ND	4,000	19.61/M	C1608Y5V0J475Z	
	6.3	10µF	+80/-20%	0.8	445-3448-1-ND	3.19	18.88	54.45	445-3448-2-ND	4,000	52.28/M	C1608Y5V0J106Z	
	100	1000pF	±10%	0.8	445-2507-1-ND	.96	5.66	16.34	445-2507-2-ND	4,000	15.98/M	C1608X8R2A102K	
	100	1500pF	±10%	0.95	445-3427-1-ND	.96	5.66	16.34	445-3427-2-ND	4,000	15.98/M	C1608X8R2A152K	
	100	2200pF	±10%	0.8	445-2508-1-ND	.96	5.66	16.34	445-2508-2-ND	4,000	15.98/M	C1608X8R2A222K	
	100	3300pF	±10%	0.95	445-3428-1-ND	.96	5.66	16.34	445-3428-2-ND	4,000	15.98/M	C1608X8R2A332K	
	100	4700pF	±10%	0.8	445-2509-1-ND	.96	5.66	16.34	445-2509-2-ND	4,000	15.98/M	C1608X8R2A472K	
	100	6800p											



Multilayer Ceramic Chip Capacitors (Cont.)



Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.	
							10	100	500		Qty.	Pricing		
0603	X8R	50	33000pF	±10%	0.95	445-3425-1-ND	.84	4.96	14.29	445-3425-2-ND	4,000	13.80/M	C1608X8R1H333K	
		50	0.01µF	±10%	0.8	445-2504-1-ND	.84	4.96	14.29	445-2504-2-ND	4,000	13.80/M	C1608X8R1H103K	
		50	0.022µF	±10%	0.8	445-2505-1-ND	.84	4.96	14.29	445-2505-2-ND	4,000	13.80/M	C1608X8R1H223K	
		50	0.047µF	±10%	0.8	445-2506-1-ND	.84	4.96	14.29	445-2506-2-ND	4,000	13.80/M	C1608X8R1H473K	
		25	68000pF	±10%	0.95	445-3421-1-ND	.96	5.66	16.34	445-3421-2-ND	4,000	15.98/M	C1608X8R1E683K	
		25	0.1µF	±10%	0.8	445-2500-1-ND	.84	4.96	14.29	445-2500-2-ND	4,000	13.80/M	C1608X8R1E104K	
0612	X7R	50	10000pF	±10%	0.7	445-1810-1-ND	2.56	15.11	43.57	445-1810-2-ND	4,000	41.83/M	C1632X7R1H103K	
		50	22000pF	±10%	0.7	445-1811-1-ND	2.73	16.11	46.47	445-1811-2-ND	4,000	44.62/M	C1632X7R1H223K	
		50	47000pF	±10%	0.7	445-1812-1-ND	2.90	17.12	49.39	445-1812-2-ND	4,000	47.42/M	C1632X7R1H473K	
		50	0.1µF	±10%	0.7	445-1813-1-ND	3.07	18.13	52.29	445-1813-2-ND	4,000	50.20/M	C1632X7R1H104K	
		50	0.22µF	±10%	1.15	445-1814-1-ND	3.24	19.14	55.20	445-1814-2-ND	2,000	52.99/M	C1632X7R1H224K	
		25	0.22µF	±10%	0.7	445-1815-1-ND	3.07	18.13	52.29	445-1815-2-ND	4,000	50.20/M	C1632X7R1E224K	
	X5R	25	0.47µF	±10%	1.15	445-1816-1-ND	3.40	20.14	58.10	445-1816-2-ND	2,000	55.78/M	C1632X7R1E474K	
		16	0.47µF	±10%	0.7	445-1817-1-ND	3.24	19.14	55.20	445-1817-2-ND	4,000	52.99/M	C1632X7R1C474K	
		16	1.0µF	±10%	1.15	445-1818-1-ND	4.26	25.18	72.62	445-1818-2-ND	2,000	69.72/M	C1632X7R1C105K	
		10	1.0µF	±10%	0.7	445-1819-1-ND	4.09	24.17	69.73	445-1819-2-ND	4,000	66.94/M	C1632X5R1A105K	
		10	2.2µF	±10%	1.15	445-1820-1-ND	5.11	30.21	87.15	445-1820-2-ND	2,000	83.66/M	C1632X5R1A225K	
		6.3	4.7µF	±10%	1.3	445-1821-1-ND	.60	3.54	10.19	445-1821-2-ND	2,000	9.79/M	C1632X5R0J475K	
0805	COG (NPO)	250	1000pF	±5%	0.85	445-2325-1-ND	1.16	6.87	19.81	445-2325-2-ND	4,000	18.88/M	C2012C0G2E102J	
		250	1500pF	±5%	0.85	445-2326-1-ND	1.39	8.24	23.77	445-2326-2-ND	4,000	22.51/M	C2012C0G2E152J	
		250	2200pF	±5%	1.25	445-2327-1-ND	1.63	9.61	27.73	445-2327-2-ND	2,000	26.86/M	C2012C0G2E222J	
		250	2700pF	±5%	1.25	445-2328-1-ND	1.74	10.30	29.72	445-2328-2-ND	2,000	28.32/M	C2012C0G2E272J	
		100	1000pF	±5%	0.6	445-2320-1-ND	.87	5.15	14.85	445-2320-2-ND	4,000	14.52/M	C2012C0G2A102J	
		100	1500pF	±5%	0.6	445-2321-1-ND	1.05	6.19	17.83	445-2321-2-ND	4,000	17.43/M	C2012C0G2A152J	
		100	2200pF	±5%	0.85	445-2322-1-ND	1.28	7.56	21.79	445-2322-2-ND	4,000	21.06/M	C2012C0G2A222J	
		100	3300pF	±5%	1.25	445-2323-1-ND	1.51	8.93	25.76	445-2323-2-ND	2,000	24.69/M	C2012C0G2A332J	
		100	4700pF	±5%	1.25	445-2324-1-ND	1.74	10.30	29.72	445-2324-2-ND	2,000	28.32/M	C2012C0G2A472J	
		50	100pF	±5%	0.6	445-1329-1-ND	.79	4.66	13.44	445-1329-2-ND	4,000	12.90/M	C2012C0G1H101J	
		50	1000pF	±5%	0.6	445-1330-1-ND	1.55	9.15	26.41	445-1330-2-ND	4,000	25.36/M	C2012C0G1H102J	
		50	1200pF	±5%	0.6	445-2681-1-ND	1.12	6.61	19.06	445-2681-2-ND	4,000	18.15/M	C2012C0G1H122J	
		50	1500pF	±5%	0.6	445-1331-1-ND	1.13	6.64	19.15	445-1331-2-ND	4,000	18.39/M	C2012C0G1H152J	
		50	1800pF	±5%	0.6	445-2682-1-ND	1.36	8.02	23.14	445-2682-2-ND	4,000	22.51/M	C2012C0G1H182J	
		50	2200pF	±5%	0.6	445-1332-1-ND	1.43	8.47	24.44	445-1332-2-ND	4,000	23.46/M	C2012C0G1H222J	
		50	2700pF	±5%	0.6	445-1600-1-ND	2.00	11.80	34.03	445-1600-2-ND	2,000	32.67/M	C2012C0G1H272J	
		50	3300pF	±5%	0.6	445-1333-1-ND	2.00	11.80	34.03	445-1333-2-ND	2,000	32.67/M	C2012C0G1H332J	
		50	3900pF	±5%	0.85	445-2683-1-ND	2.40	14.16	40.84	445-2683-2-ND	4,000	39.21/M	C2012C0G1H392J	
		50	4700pF	±5%	0.85	445-1334-1-ND	2.40	14.16	40.84	445-1334-2-ND	4,000	39.21/M	C2012C0G1H472J	
		50	5600pF	±5%	0.85	445-2684-1-ND	2.80	16.52	47.65	445-2684-2-ND	4,000	45.74/M	C2012C0G1H562J	
		50	6800pF	±5%	1.25	445-1335-1-ND	2.80	16.52	47.65	445-1335-2-ND	2,000	45.74/M	C2012C0G1H682J	
		50	8200pF	±5%	1.25	445-2685-1-ND	3.19	18.88	54.45	445-2685-2-ND	2,000	52.27/M	C2012C0G1H822J	
		50	10000pF	±5%	1.25	445-1336-1-ND	5.42	32.05	92.43	445-1336-2-ND	2,000	88.73/M	C2012C0G1H103J	
		25	3900pF	±5%	0.6	445-2676-1-ND	2.40	14.16	40.84	445-2676-2-ND	4,000	39.21/M	C2012C0G1E392J	
	25	4700pF	±5%	0.6	445-2677-1-ND	2.40	14.16	40.84	445-2677-2-ND	4,000	39.21/M	C2012C0G1E472J		
	25	5600pF	±5%	0.6	445-2678-1-ND	2.80	16.52	47.65	445-2678-2-ND	4,000	45.74/M	C2012C0G1E562J		
	25	6800pF	±5%	0.6	445-2679-1-ND	2.80	16.52	47.65	445-2679-2-ND	—	—	—		
	25	8200pF	±5%	0.6	445-2680-1-ND	3.19	18.88	54.45	445-2680-2-ND	4,000	52.28/M	C2012C0G1E822J		
	25	10000pF	±5%	0.6	445-2672-1-ND	3.19	18.88	54.45	445-2672-2-ND	4,000	52.28/M	C2012C0G1E103J		
	25	15000pF	±5%	0.85	445-2673-1-ND	4.79	28.31	81.68	445-2673-2-ND	4,000	78.41/M	C2012C0G1E152J		
	25	22000pF	±5%	1.25	445-2674-1-ND	4.79	28.31	81.68	445-2674-2-ND	2,000	78.41/M	C2012C0G1E223J		
	25	33000pF	±5%	1.25	445-2675-1-ND	6.39	37.75	108.90	445-2675-2-ND	2,000	104.55/M	C2012C0G1E333J		
	0805	X7R	250	1000pF	±10%	0.85	445-2277-1-ND	.93	5.50	15.85	445-2277-2-ND	4,000	15.25/M	C2012X7R2E102K
			250	2200pF	±10%	0.85	445-2278-1-ND	1.16	6.87	19.81	445-2278-2-ND	4,000	18.88/M	C2012X7R2E222K
			250	4700pF	±10%	0.85	445-2279-1-ND	1.16	6.87	19.81	445-2279-2-ND	4,000	18.88/M	C2012X7R2E472K
			250	10000pF	±10%	1.25	445-2280-1-ND	1.74	10.30	29.72	445-2280-2-ND	2,000	28.32/M	C2012X7R2E103K
			250	22000pF	±10%	1.25	445-2281-1-ND	1.74	10.30	29.72	445-2281-2-ND	2,000	28.32/M	C2012X7R2E223K
			100	1000pF	±10%	0.85	445-1337-1-ND	.91	5.36	15.45	445-1337-2-ND	4,000	14.84/M	C2012X7R2A102K
			100	1000pF	±20%	0.85	445-1338-1-ND	.66	3.92	11.30	445-1338-2-ND	4,000	10.85/M	C2012X7R2A102M
			100	2200pF	±10%	0.85	445-1339-1-ND	.64	3.78	10.89	445-1339-2-ND	4,000	10.46/M	C2012X7R2A222K
			100	2200pF	±20%	0.85	445-1340-1-ND	.83	4.94	14.27	445-1340-2-ND	4,000	13.70/M	C2012X7R2A222M
			100	4700pF	±10%	0.85	445-1341-1-ND	.72	4.25	12.25	445-1341-2-ND	4,000	11.76/M	C2012X7R2A472K
			100	4700pF	±20%	0.85	445-1342-1-ND	.86	5.10	14.70	445-1342-2-ND	4,000	14.12/M	C2012X7R2A472M
			100	10000pF	±10%	0.85	445-1343-1-ND	.91	5.36	15.45	445-1343-2-ND	4,000	14.84/M	C2012X7R2A103K
		100	10000pF	±20%	0.85	445-1344-1-ND	.84	4.96	14.29	445-1344-2-ND	4,000	13.73/M	C2012X7R2A103M	
		100	22000pF	±10%	1.25	445-1345-1-ND	1.05	6.19	17.83	445-1345-2-ND	2,000	17.12/M	C2012X7R2A223K	
		100	22000pF	±20%	1.25	445-1346-1-ND	.96	5.86	16.34	445-1346-2-ND	2,000	15.68/M	C2012X7R2A223M	
		X7R	100	47000pF	±10%	1.25	445-2276-1-ND	2.32	13.74	39.61	445-2276-2-ND	2,000	37.75/M	C2012X7R2A473K
100			0.1µF	±10%	1.25	445-1418-1-ND	3.25	19.22	55.46	445-1418-2-ND	4,000	53.24/M	C2012X7R2A104K	
50			1000pF	±10%	0.6	445-1347-1-ND	.60	3.56	10.27	445-1347-2-ND	2,000	9.86/M	C2012X7R1H102K	
50			10000pF	±10%	0.6	445-1348-1-ND	.54	3.20	9.24	445-1348-2-ND	4,000	8.88/M	C2012X7R1H103K	
50			0.1µF	±10%	0.85	445-1349-1-ND	1.15	6.77	19.55	445-1349-2-ND	2,000	18.77/M	C2012X7R1H104K	
50			0.22µF	±10%	1.25	445-1350-1-ND	1.66	9.84	28.39	445-1350-2-ND	2,000	27.26/M	C2012X7R1H224K	
25			0.1µF	±10%	0.85	445-1351-1-ND	1.15	6.77	19.55	445-1351-2-ND	2,000	18.77/M	C2012X7R1E104K	
25			0.22µF	±10%	1.25	445-1352-1-ND	1.66	9.84	28.39	445-1352-2-ND	2,000	27.26/M	C2012X7R1E224K	
25			0.47µF	±10%	1.25	445-1353-1-ND	2.48	14.65	42.25	445-1353-2-ND	2,000	40.56/M	C2012X7R1E474K	
25	1.0µF		±10%	1.25	445-1354-1-ND	4.31	25.48	73.51	445-1354-2-ND	2,000	70.57/M	C2012X7R1E105K		
X5R	16		0.22µF	±10%	1.25	445-1355-1-ND	1.66	9.84	28.39	445-1355-2-ND	2,000	27.26/M	C2012X7R1C224K	
	16		0.33µF	±10%	1.25	445-1356-1-ND	2.32	13.74	39.61	445-1356-2-ND	2,000	38.03		



Multilayer Ceramic Chip Capacitors (Cont.)



Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.	
							10	100	500		Qty.	Pricing		
0805	X5R	6.3	10µF	±20%	1.25	445-1363-1-ND	2.24	13.21	38.12	445-1363-2-ND	2,000	36.59/M	C2012X5R0J106M	
		6.3	22µF	±20%	1.25	445-1422-1-ND	7.19	42.47	122.51	445-1422-2-ND	2,000	117.61/M	C2012X5R0J226M	
	Y5V	50	0.10µF	+80/-20%	0.60	445-3462-1-ND	.48	2.83	8.17	445-3462-2-ND	4,000	7.99/M	C2012Y5V1H104Z/0.60	
		50	1.0µF	+80/-20%	0.85	445-3463-1-ND	.72	4.25	12.25	445-3463-2-ND	4,000	11.62/M	C2012Y5V1H105Z/0.85	
		50	1.0µF	+80/-20%	1.25	445-1364-1-ND	.72	4.25	12.25	445-1364-2-ND	2,000	11.76/M	C2012Y5V1H105Z	
		50	2.2µF	+80/-20%	1.25	445-3464-1-ND	2.40	14.16	40.84	445-3464-2-ND	2,000	39.21/M	C2012Y5V1H225Z	
		25	1.0µF	+80/-20%	0.85	445-1590-1-ND	.72	4.25	12.25	445-1590-2-ND	4,000	11.76/M	C2012Y5V1E105Z/0.85	
		25	2.2µF	+80/-20%	1.25	445-1366-1-ND	1.60	9.44	27.23	445-1366-2-ND	2,000	26.14/M	C2012Y5V1E225Z	
		25	4.7µF	+80/-20%	1.25	445-3461-1-ND	2.00	11.80	34.03	445-3461-2-ND	2,000	32.67/M	C2012Y5V1E475Z	
		16	1.0µF	+80/-20%	0.85	445-1589-1-ND	.72	4.25	12.25	445-1589-2-ND	4,000	11.76/M	C2012Y5V1C105Z/0.85	
		16	2.2µF	+80/-20%	0.85	445-3459-1-ND	.96	5.66	16.34	445-3459-2-ND	4,000	15.98/M	C2012Y5V1C225Z/0.85	
		16	2.2µF	+80/-20%	1.25	445-1368-1-ND	.96	5.66	16.34	445-1368-2-ND	2,000	15.68/M	C2012Y5V1C225Z	
	X8R	16	4.7µF	+80/-20%	0.85	445-3460-1-ND	2.00	11.80	34.03	445-3460-2-ND	4,000	32.67/M	C2012Y5V1C475Z/0.85	
		16	4.7µF	+80/-20%	1.25	445-1369-1-ND	2.00	11.80	34.03	445-1369-2-ND	2,000	32.67/M	C2012Y5V1C475Z	
		16	10µF	+80/-20%	1.25	445-3458-1-ND	2.16	12.74	36.76	445-3458-2-ND	2,000	35.58/M	C2012Y5V1C106Z	
		10	4.7µF	+80/-20%	0.85	445-3457-1-ND	.92	5.43	15.65	445-3457-2-ND	4,000	15.25/M	C2012Y5V1A475Z/0.85	
		10	4.7µF	+80/-20%	1.25	445-1370-1-ND	.92	5.43	15.65	445-1370-2-ND	2,000	15.03/M	C2012Y5V1A475Z	
		10	10µF	+80/-20%	1.25	445-1371-1-ND	1.84	10.85	31.31	445-1371-2-ND	2,000	30.06/M	C2012Y5V1A106Z	
		6.3	10µF	+80/-20%	1.25	445-1372-1-ND	1.28	7.55	21.78	445-1372-2-ND	2,000	20.91/M	C2012Y5V0J106Z	
		6.3	22µF	+80/-20%	1.25	445-1373-1-ND	3.99	23.60	68.06	445-1373-2-ND	2,000	65.34/M	C2012Y5V0J226Z	
		SL	100	22000pF	±10%	1.25	445-2515-1-ND	1.80	10.62	30.63	445-2515-2-ND	2,000	29.77/M	C2012X8R2A223K
			50	68000pF	±10%	1.45	445-3431-1-ND	1.60	9.44	27.23	445-3431-2-ND	2,000	26.14/M	C2012X8R1H683K
	50		0.10µF	±10%	1.25	445-2514-1-ND	1.20	7.08	20.42	445-2514-2-ND	2,000	19.60/M	C2012X8R1H104K	
	25		0.15µF	±10%	1.45	445-3430-1-ND	3.99	23.60	68.06	445-3430-2-ND	4,000	65.34/M	C2012X8R1E154K	
	25		0.22µF	±10%	1.25	445-2512-1-ND	2.40	14.16	40.84	445-2512-2-ND	2,000	39.21/M	C2012X8R1E224K	
	25	0.33µF	±10%	1.25	445-2513-1-ND	2.40	14.16	40.84	445-2513-2-ND	2,000	39.21/M	C2012X8R1E334K		
	1206	SL	10	68000pF	±5%	1.25	445-2689-1-ND	9.58	56.63	163.35	445-2689-2-ND	2,000	156.82/M	C2012SL1A683J
			10	0.1µF	±5%	1.25	445-2686-1-ND	9.58	56.63	163.35	445-2686-2-ND	2,000	156.82/M	C2012SL1A104J
		COG (NPO)	630	100pF	±5%	0.6	445-2336-1-ND	2.32	13.74	39.61	445-2336-2-ND	4,000	37.76/M	C3216COG2J101J
			630	150pF	±5%	0.6	445-2337-1-ND	2.32	13.74	39.61	445-2337-2-ND	4,000	37.76/M	C3216COG2J151J
630			220pF	±5%	0.6	445-2338-1-ND	2.32	13.74	39.61	445-2338-2-ND	4,000	37.76/M	C3216COG2J221J	
630			330pF	±5%	0.6	445-2339-1-ND	2.32	13.74	39.61	445-2339-2-ND	4,000	37.76/M	C3216COG2J331J	
630			470pF	±5%	0.85	445-2340-1-ND	2.32	13.74	39.61	445-2340-2-ND	4,000	37.76/M	C3216COG2J471J	
630			680pF	±5%	0.85	445-2341-1-ND	2.32	13.74	39.61	445-2341-2-ND	4,000	37.76/M	C3216COG2J681J	
630			1000pF	±5%	0.85	445-2342-1-ND	2.32	13.74	39.61	445-2342-2-ND	4,000	37.76/M	C3216COG2J102J	
630			1500pF	±5%	1.15	445-2343-1-ND	2.90	17.17	49.52	445-2343-2-ND	2,000	47.19/M	C3216COG2J152J	
630			2200pF	±5%	1.15	445-2344-1-ND	3.48	20.60	59.42	445-2344-2-ND	2,000	57.36/M	C3216COG2J222J	
630			3300pF	±5%	1.6	445-2345-1-ND	4.07	24.03	69.33	445-2345-2-ND	2,000	66.79/M	C3216COG2J332J	
COG (NPO)		250	3300pF	±5%	0.85	445-2332-1-ND	2.32	13.74	39.61	445-2332-2-ND	4,000	37.76/M	C3216COG2E332J	
		250	4700pF	±5%	1.15	445-2333-1-ND	3.48	20.60	59.42	445-2333-2-ND	2,000	57.36/M	C3216COG2E472J	
		250	6800pF	±5%	1.6	445-2334-1-ND	4.65	27.46	79.23	445-2334-2-ND	2,000	76.23/M	C3216COG2E682J	
		250	8200pF	±5%	1.6	445-2335-1-ND	5.23	30.90	89.14	445-2335-2-ND	2,000	85.67/M	C3216COG2E822J	
		100	4700pF	±5%	0.85	445-2329-1-ND	2.90	17.17	49.52	445-2329-2-ND	4,000	47.19/M	C3216COG2A472J	
		100	6800pF	±5%	1.15	445-2330-1-ND	4.07	24.03	69.33	445-2330-2-ND	2,000	66.79/M	C3216COG2A682J	
		100	10000pF	±5%	1.15	445-2331-1-ND	4.65	27.46	79.23	445-2331-2-ND	2,000	76.23/M	C3216COG2A103J	
		50	4700pF	±5%	0.6	445-1374-1-ND	3.10	18.31	52.82	445-1374-2-ND	4,000	50.71/M	C3216COG1H472J	
		50	10000pF	±5%	0.85	445-1375-1-ND	3.99	23.60	68.06	445-1375-2-ND	2,000	65.34/M	C3216COG1H103J	
		50	15000pF	±5%	1.15	445-2698-1-ND	4.63	27.37	78.95	445-2698-2-ND	2,000	75.51/M	C3216COG1H153J	
COG (NPO)		50	22000pF	±5%	1.15	445-1376-1-ND	4.79	28.31	81.68	445-1376-2-ND	2,000	78.41/M	C3216COG1E223J	
		50	33000pF	±5%	1.6	445-2699-1-ND	8.78	51.91	149.74	445-2699-2-ND	2,000	143.75/M	C3216COG1H333J	
		25	8200pF	±5%	0.6	445-2697-1-ND	3.99	23.60	68.06	445-2697-2-ND	4,000	65.34/M	C3216COG1E822J	
		25	10000pF	±5%	0.6	445-2690-1-ND	3.99	23.60	68.06	445-2690-2-ND	4,000	65.34/M	C3216COG1E103J	
		25	22000pF	±5%	0.6	445-2693-1-ND	4.79	28.31	81.68	445-2693-2-ND	4,000	78.41/M	C3216COG1E223J	
		25	33000pF	±5%	0.85	445-2694-1-ND	8.78	51.91	149.74	445-2694-2-ND	2,000	143.75/M	C3216COG1E333J	
		25	47000pF	±5%	1.15	445-2695-1-ND	10.38	61.35	176.96	445-2695-2-ND	2,000	169.89/M	C3216COG1E473J	
		25	68000pF	±5%	1.6	445-2696-1-ND	10.38	61.35	176.96	445-2696-2-ND	2,000	169.89/M	C3216COG1E683J	
	X7R	630	1000pF	±10%	1.15	445-2288-1-ND	2.90	17.17	49.52	445-2288-2-ND	2,000	47.19/M	C3216X7R2J102K	
		630	2200pF	±10%	1.15	445-2289-1-ND	2.90	17.17	49.52	445-2289-2-ND	2,000	47.19/M	C3216X7R2J222K	
630		4700pF	±10%	1.15	445-2290-1-ND	2.90	17.17	49.52	445-2290-2-ND	2,000	47.19/M	C3216X7R2J472K		
630		10000pF	±10%	1.15	445-2291-1-ND	3.48	20.60	59.42	445-2291-2-ND	2,000	57.36/M	C3216X7R2J103K		
630		22000pF	±10%	1.3	445-2292-1-ND	4.65	27.46	79.23	445-2292-2-ND	2,000	76.23/M	C3216X7R2J223K		
250		22000pF	±10%	1.15	445-2285-1-ND	2.32	13.74	39.61	445-2285-2-ND	2,000	37.75/M	C3216X7R2E223K		
250		47000pF	±10%	1.6	445-2286-1-ND	2.90	17.17	49.52	445-2286-2-ND	2,000	47.19/M	C3216X7R2E473K		
250		0.1µF	±10%	1.6	445-2287-1-ND	3.48	20.60	59.42	445-2287-2-ND	2,000	57.36/M	C3216X7R2E104K		
100		47000pF	±10%	1.15	445-2282-1-ND	2.90	17.17	49.52	445-2282-2-ND	2,000	47.19/M	C3216X7R2A473K		
100		0.1µF	±10%	1.6	445-1377-1-ND	5.04	29.75	85.83	445-1377-2-ND	2,000	82.40/M	C3216X7R2A104K		
X7R	100	0.1µF	±20%	1.6	445-1378-1-ND	4.72	27.89	80.43	445-1378-2-ND	2,000	77.22/M	C3216X7R2A104M		
	100	0.22µF	±10%	1.15	445-2283-1-ND	4.65	27.46	79.23	445-2283-2-ND	2,000	76.23/M	C3216X7R2A224K		
	100	0.47µF	±10%	1.6	445-2284-1-ND	5.81	34.33	99.03	445-2284-2-ND	2,000	95.11/M	C3216X7R2A474K		
	50	0.22µF	±10%	1.6	445-1379-1-ND	1.60	9.44	27.23	445-1379-2-ND	2,000	26.14/M	C3216X7R1H224K		
	50	0.47µF	±10%	1.6	445-1380-1-ND	2.00	11.80	34.03	445-1380-2-ND	2,000	32.67/M	C3216X7R1H474K		
	50	1.0µF	±10%	1.6	445-1423-1-ND	2.00	11.80	34.03	445-1423-2-ND	2,000	32.67/M	C3216X7R1H105K		
	25	1.0µF	±10%	0.85	445-1592-1-ND	1.28	7.55	21.78	445-1592-2-ND	4,000	20.91/M	C3216X7R1E105K/0.85		
	25	2.2µF	±10%	1.6	445-1382-1-ND	2.40	14.16	40.84	445-1382-2-ND	2,000	39.21/M	C3216X7R1E225K		
	25	4.7µF	±10%	1.6	445-1606-1-ND	3.51	20.76	59.90	445-1606-2-ND	2,000	57.50/M	C3216X7R1E475K		
	25	4.7µF	±20%	1.6	445-1424-1-ND	3.51	20.76	59.90	445-1424-2-ND	2,000	57.50/M	C3216X7R1E475M		



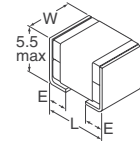
Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Qty.	Pricing	
1206	X5R	6.3	47µF	±20%	1.6	445-1428-1-ND	11.18	66.07	190.58	445-1428-2-ND	2,000	182.95/M	C3216X5R0J476M
		50	4.7µF	+80/-20%	1.6	445-3472-1-ND	2.80	16.52	47.65	445-3472-2-ND	2,000	45.74/M	C3216Y5V1H475Z
		25	4.7µF	+80/-20%	0.85	445-3470-1-ND	2.40	14.16	40.84	445-3470-2-ND	4,000	39.21/M	C3216Y5V1E475Z/1.05
		25	4.7µF	+80/-20%	1.15	445-3471-1-ND	2.40	14.16	40.84	445-3471-2-ND	2,000	39.21/M	C3216Y5V1E475Z/1.15
		25	10µF	+80/-20%	1.6	445-3469-1-ND	2.40	14.16	40.84	445-3469-2-ND	2,000	39.21/M	C3216Y5V1E106Z
		16	4.7µF	+80/-20%	0.85	445-1594-1-ND	2.16	12.74	36.76	445-1594-2-ND	4,000	35.29/M	C3216Y5V1C475Z/0.85
	Y5V	16	4.7µF	+80/-20%	1.15	445-3467-1-ND	2.16	12.74	36.76	445-3467-2-ND	2,000	35.58/M	C3216Y5V1C475Z/1.15
		16	4.7µF	+80/-20%	1.30	445-3468-1-ND	2.16	12.74	36.76	445-3468-2-ND	2,000	35.58/M	C3216Y5V1C475Z/1.30
		16	10µF	+80/-20%	1.6	445-1391-1-ND	1.76	10.38	29.95	445-1391-2-ND	2,000	28.75/M	C3216Y5V1C106Z
		16	22µF	+80/-20%	1.6	445-3466-1-ND	5.19	30.67	88.48	445-3466-2-ND	2,000	84.94/M	C3216Y5V1C226Z
		10	10µF	+80/-20%	0.85	445-1593-1-ND	1.28	7.55	21.78	445-1593-2-ND	4,000	20.91/M	C3216Y5V1A106Z/0.85
		10	10µF	+80/-20%	1.15	445-3465-1-ND	1.28	7.55	21.78	445-3465-2-ND	2,000	21.06/M	C3216Y5V1A106Z/1.15
	X8R	10	22µF	+80/-20%	1.6	445-1393-1-ND	4.39	25.95	74.87	445-1393-2-ND	2,000	71.88/M	C3216Y5V1A226Z
		6.3	47µF	+80/-20%	1.6	445-1394-1-ND	15.97	94.38	272.25	445-1394-2-ND	2,000	261.36/M	C3216Y5V0J476Z
		100	33000pF	±10%	1.8	445-3436-1-ND	4.79	28.31	81.68	445-3436-2-ND	4,000	78.41/M	C3216X8R2A333K
		100	68000pF	±10%	1.8	445-3437-1-ND	4.79	28.31	81.68	445-3437-2-ND	2,000	78.41/M	C3216X8R2A683K
		100	0.047µF	±10%	0.85	445-2520-1-ND	4.79	28.31	81.68	445-2520-2-ND	4,000	78.41/M	C3216X8R2A473K
		100	0.10µF	±10%	1.15	445-2521-1-ND	4.79	28.31	81.68	445-2521-2-ND	2,000	78.41/M	C3216X8R2A104K
	SL	100	0.15µF	±10%	1.6	445-2522-1-ND	4.79	28.31	81.68	445-2522-2-ND	2,000	78.41/M	C3216X8R2A154K
		50	0.15µF	±10%	1.8	445-3434-1-ND	6.39	37.75	108.90	445-3434-2-ND	4,000	104.55/M	C3216X8R1H154K
		50	0.22µF	±10%	1.15	445-2518-1-ND	4.79	28.31	81.68	445-2518-2-ND	2,000	78.41/M	C3216X8R1H224K
		50	0.33µF	±10%	1.8	445-3435-1-ND	4.79	28.31	81.68	445-3435-2-ND	2,000	78.41/M	C3216X8R1H334K
		50	0.47µF	±10%	1.6	445-2519-1-ND	4.79	28.31	81.68	445-2519-2-ND	2,000	78.41/M	C3216X8R1H474K
		50	0.33µF	±10%	1.8	445-3432-1-ND	4.79	28.31	81.68	445-3432-2-ND	4,000	78.41/M	C3216X8R1E334K
1210	COG (NPO)	25	0.47µF	±10%	0.85	445-2516-1-ND	4.79	28.31	81.68	445-2516-2-ND	4,000	78.41/M	C3216X8R1E474K
		25	0.68µF	±10%	1.8	445-3433-1-ND	4.79	28.31	81.68	445-3433-2-ND	2,000	78.41/M	C3216X8R1E684K
		25	1.0µF	±10%	1.6	445-2517-1-ND	4.79	28.31	81.68	445-2517-2-ND	2,000	78.41/M	C3216X8R1E105K
		10	0.15µF	±5%	1.15	445-2700-1-ND	11.98	70.79	204.19	—	—	—	C3216SL1A154J
		10	0.22µF	±5%	1.6	445-2701-1-ND	11.98	70.79	204.19	445-2701-2-ND	2,000	196.02/M	C3216SL1A224J
		630	4700pF	±5%	1.6	445-2352-1-ND	17.43	102.99	297.09	445-2352-2-ND	2,000	285.32/M	C3225C0G2J472J
	630	6800pF	±5%	2.0	445-2353-1-ND	17.43	102.99	297.09	445-2353-2-ND	1,000	285.32	C3225C0G2J682J	
	250	10000pF	±5%	1.6	445-2350-1-ND	23.24	137.32	396.13	445-2350-2-ND	2,000	380.43/M	C3225C0G2E103J	
	250	15000pF	±5%	2.0	445-2351-1-ND	23.24	137.32	396.13	445-2351-2-ND	1,000	380.42	C3225C0G2E153J	
	100	15000pF	±5%	1.25	445-2346-1-ND	17.43	102.99	297.09	445-2346-2-ND	2,000	285.32/M	C3225C0G2A153J	
	X7R	100	22000pF	±5%	1.6	445-2347-1-ND	17.43	102.99	297.09	445-2347-2-ND	2,000	285.32/M	C3225C0G2A223J
		100	33000pF	±5%	2.0	445-2348-1-ND	23.24	137.32	396.13	445-2348-2-ND	1,000	380.42	C3225C0G2A333J
		100	47000pF	±5%	2.3	445-2349-1-ND	23.24	137.32	396.13	445-2349-2-ND	1,000	380.42	C3225C0G2A473J
		50	22000pF	±5%	1.25	445-2703-1-ND	15.97	94.38	272.25	445-2703-2-ND	2,000	261.36/M	C3225C0G1H223J
		50	33000pF	±5%	1.25	445-2704-1-ND	19.97	117.98	340.31	445-2704-2-ND	2,000	326.70/M	C3225C0G1H333J
		50	47000pF	±5%	2.0	445-2705-1-ND	19.97	117.98	340.31	445-2705-2-ND	1,000	326.70	C3225C0G1H473J
	X5R	50	68000pF	±5%	2.0	445-2706-1-ND	23.96	141.57	408.38	445-2706-2-ND	1,000	392.04	C3225C0G1H683J
		50	0.1µF	±5%	2.5	445-2702-1-ND	23.96	141.57	408.38	445-2702-2-ND	1,000	392.04	C3225C0G1H104J
		630	47000pF	±10%	2.0	445-2297-1-ND	9.29	54.93	158.45	445-2297-2-ND	2,000	152.46	C3225X7R2J473K
		250	0.1µF	±10%	2.0	445-2295-1-ND	6.97	41.20	118.84	445-2295-2-ND	1,000	113.98	C3225X7R2E104K
		250	0.22µF	±10%	2.0	445-2296-1-ND	9.29	54.93	158.45	445-2296-2-ND	1,000	152.46	C3225X7R2E224K
		100	0.47µF	±20%	2.0	445-1395-1-ND	15.34	90.63	261.44	445-1395-2-ND	1,000	250.99	C3225X7R2A474M
	X7R	100	0.47µF	±10%	2.0	445-2293-1-ND	9.29	54.93	158.45	445-2293-2-ND	1,000	152.46	C3225X7R2A474M
		100	1.0µF	±20%	2.0	445-1429-1-ND	11.98	70.79	204.19	445-1429-2-ND	1,000	196.02	C3225X7R2A105M
100		1.0µF	±10%	2.0	445-2294-1-ND	11.98	70.79	204.19	445-2294-2-ND	1,000	196.02	C3225X7R2A105K	
50		1.0µF	±10%	1.6	445-1430-1-ND	4.63	27.37	78.95	445-1430-2-ND	1,000	75.79	C3225X7R1H105K	
50		1.0µF	±20%	1.6	445-1396-1-ND	4.63	27.37	78.95	445-1396-2-ND	1,000	75.79	C3225X7R1H105M	
50		2.2µF	±10%	2.5	445-1431-1-ND	7.19	42.47	122.51	445-1431-2-ND	1,000	117.61	C3225X7R1H225K	
X5R	50	3.3µF	±20%	2.5	445-1432-1-ND	10.78	63.71	183.77	445-1432-2-ND	1,000	176.42	C3225X7R1H335M	
	25	2.2µF	±20%	1.6	445-1397-1-ND	6.71	39.64	114.35	445-1397-2-ND	1,000	109.77	C3225X7R1E225M	
	25	4.7µF	±10%	2.0	445-1433-1-ND	7.79	46.01	132.72	445-1433-2-ND	1,000	127.41	C3225X7R1E475K	
	25	4.7µF	±20%	2.0	445-1398-1-ND	7.79	46.01	132.72	445-1398-2-ND	1,000	127.41	C3225X7R1E475M	
	25	10µF	±20%	2.5	445-1434-1-ND	8.78	51.91	149.74	445-1434-2-ND	1,000	143.75	C3225X7R1E106M	
	16	4.7µF	±10%	1.6	445-1435-1-ND	14.07	83.16	238.88	445-1435-2-ND	2,000	230.29/M	C3225X7R1C475K	
Y5V	16	10µF	±20%	2.0	445-1399-1-ND	5.75	33.98	98.01	445-1399-2-ND	1,000	94.09	C3225X7R1C106M	
	16	10µF	±20%	2.0	445-1400-1-ND	5.75	33.98	98.01	445-1400-2-ND	1,000	94.09	C3225X5R1C106M	
	16	22µF	±20%	2.5	445-1436-1-ND	10.06	59.46	171.52	445-1436-2-ND	1,000	164.66	C3225X5R1C226M	
	10	10µF	±10%	2.0	445-1401-1-ND	5.03	29.73	85.76	445-1401-2-ND	1,000	82.33	C3225X5R1A106K	
	10	10µF	±20%	2.0	445-1402-1-ND	5.03	29.73	85.76	445-1402-2-ND	1,000	82.33	C3225X5R1A106M	
	10	22µF	±20%	2.3	445-1403-1-ND	9.74	57.57	166.07	445-1403-2-ND	1,000	159.43	C3225X5R1A226M	
X8R	6.3	22µF	±20%	2.0	445-1595-1-ND	7.59	44.83	129.32	445-1595-2-ND	1,000	124.15	C3225X5R0J226M/2.00	
	6.3	47µF	±20%	2.5	445-1405-1-ND	18.37	108.54	313.09	445-1405-2-ND	1,000	300.56	C3225X5R0J476M	
	6.3	100µF	±20%	2.5	445-1437-1-ND	35.94	212.36	612.56	445-1437-2-ND	1,000	588.06	C3225X5R0J107M	
	50	4.7µF	+80/-20%	2.3	445-3480-1-ND	4.39	25.95	74.87	445-3480-2-ND	2,000	71.88/M	C3225Y5V1H475Z	
	25	10µF	+80/-20%	2.3	445-3479-1-ND	7.19	42.47	122.51	445-3479-2-ND	2,000	117.61/M	C3225Y5V1H106Z	
	50	10µF	+80/-20%	1.3	445-3477-1-ND	4.79	28.31	81.68	445-3477-2-ND	2,000	78.41/M	C3225Y5V1E106Z/1.30	
Y5V	25	10µF	+80/-20%	1.6	445-1598-1-ND	5.03	29.73	85.76	445-1598-2-ND	2,000	82.33/M	C3225Y5V1E106Z/1.60	
	25	22µF	+80/-20%	2.3	445-3478-1-ND	4.79	28.31	81.68	445-3478-2-ND	1,000	78.41	C3225Y5V1E226Z	
	16	10µF	+80/-20%	1.15	445-1597-1-ND	4.79	28.31	81.68	445-1597-2-ND	2,000	78.41/M	C3225Y5V1C106Z/1.15	
	16	10µF	+80/-20%	1.6	445-3473-1-ND	5.03	29.73	85.76	445-3473-2-ND	2,000	82.04/M	C3225Y5V1C106Z/1.60	
	16	22µF	+80/-20%	1.3	445-3474-1-ND	3.99	23.60	68.06	445-3474-2-ND	2,000	65.34/M	C3225Y5V1C226Z/1.30	
	16	22µF	+80/-20%	2.0	445-3475-1-ND	4.23							



Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.		
							10	100	500		Qty.	Pricing			
1808	COG (NPO)	3000	22pF	±10%	1.1	445-2367-1-ND	11.38	67.25	193.98	445-2367-2-ND	1,000	186.58	C4520COG3F220K		
		3000	27pF	±10%	1.6	445-2368-1-ND	11.38	67.25	193.98	445-2368-2-ND	1,000	186.58	C4520COG3F270K		
		3000	33pF	±10%	1.6	445-2369-1-ND	11.38	67.25	193.98	445-2369-2-ND	1,000	186.58	C4520COG3F330K		
		3000	39pF	±10%	1.6	445-2370-1-ND	11.38	67.25	193.98	445-2370-2-ND	1,000	186.58	C4520COG3F390K		
		3000	47pF	±10%	1.6	445-2371-1-ND	11.38	67.25	193.98	445-2371-2-ND	1,000	186.58	C4520COG3F470K		
		3000	56pF	±10%	2.0	445-2372-1-ND	11.38	67.25	193.98	445-2372-2-ND	1,000	186.58	C4520COG3F560K		
	X7R	3000	68pF	±10%	2.0	445-2373-1-ND	11.38	67.25	193.98	445-2373-2-ND	1,000	186.58	C4520COG3F680K		
		3000	82pF	±10%	2.0	445-2374-1-ND	11.38	67.25	193.98	445-2374-2-ND	1,000	186.58	C4520COG3F820K		
		3000	100pF	±10%	2.0	445-2375-1-ND	11.38	67.25	193.98	445-2375-2-ND	1,000	186.58	C4520COG3F101K		
		2000	470pF	±10%	1.3	445-2385-1-ND	13.09	77.33	223.09	445-2385-2-ND	1,000	214.17	C4520X7R3D471K		
		2000	1000pF	±10%	1.3	445-2386-1-ND	13.09	77.33	223.09	445-2386-2-ND	1,000	214.17	C4520X7R3D102K		
		1000	470pF	±10%	1.3	445-2383-1-ND	13.09	77.33	223.09	445-2383-2-ND	1,000	214.17	C4520X7R3A471K		
		1000	1000pF	±10%	1.3	445-2384-1-ND	13.09	77.33	223.09	445-2384-2-ND	1,000	214.17	C4520X7R3A102K		
		1812	COG (NPO)	3000	100pF	±10%	1.6	445-2376-1-ND	14.22	84.06	242.48	445-2376-2-ND	1,000	233.05	C4532COG3F101K
3000	120pF			±10%	1.6	445-2377-1-ND	14.22	84.06	242.48	445-2377-2-ND	1,000	233.05	C4532COG3F121K		
3000	150pF			±10%	1.6	445-2378-1-ND	14.22	84.06	242.48	445-2378-2-ND	1,000	233.05	C4532COG3F151K		
3000	180pF			±10%	1.6	445-2379-1-ND	14.22	84.06	242.48	445-2379-2-ND	1,000	233.05	C4532COG3F181K		
3000	220pF			±10%	2.0	445-2380-1-ND	14.80	87.42	252.17	445-2380-2-ND	1,000	241.76	C4532COG3F221K		
3000	270pF			±10%	2.3	445-2381-1-ND	17.07	100.87	—	445-2381-2-ND	500	139.76	C4532COG3F271K		
X7R	3000		330pF	±10%	2.5	445-2382-1-ND	17.07	100.87	290.97	445-2382-2-ND	1,000	217.07	C4532COG3F331K		
	630		10000pF	±5%	1.6	445-2360-1-ND	46.48	274.65	792.25	445-2360-2-ND	1,000	760.85	C4532COG2J103J		
	630		15000pF	±5%	2.5	445-2361-1-ND	46.48	274.65	—	445-2361-2-ND	500	380.42	C4532COG2J153J		
	630		22000pF	±5%	3.2	445-2362-1-ND	46.48	274.65	—	445-2362-2-ND	500	380.42	C4532COG2J223J		
	250		22000pF	±5%	1.6	445-2357-1-ND	40.67	240.31	693.21	445-2357-2-ND	1,000	665.74	C4532COG2E223J		
	250		33000pF	±5%	2.0	445-2358-1-ND	40.67	240.31	693.21	445-2358-2-ND	1,000	665.74	C4532COG2E333K		
	250		47000pF	±5%	3.2	445-2359-1-ND	40.67	240.31	—	445-2359-2-ND	500	332.87	C4532COG2E473J		
	100		47000pF	±5%	2.0	445-2354-1-ND	29.05	171.66	495.15	445-2354-2-ND	1,000	475.53	C4532COG2A473J		
	100		68000pF	±5%	2.5	445-2355-1-ND	34.86	205.99	—	445-2355-2-ND	500	285.32	C4532COG2A683J		
	100		0.1µF	±5%	3.2	445-2356-1-ND	34.86	205.99	—	445-2356-2-ND	500	285.32	C4532COG2A104J		
	50		47000pF	±5%	1.6	445-2710-1-ND	23.96	141.57	408.38	445-2710-2-ND	1,000	392.04	C4532COG1H473J		
	50		68000pF	±5%	1.6	445-2711-1-ND	31.94	188.76	544.50	445-2711-2-ND	1,000	522.72	C4532COG1H683J		
	50		0.1µF	±5%	2.0	445-2707-1-ND	29.95	176.96	510.47	445-2707-2-ND	1,000	490.05	C4532COG1H104J		
	50		0.15µF	±5%	2.5	445-2708-1-ND	35.94	212.36	—	445-2708-2-ND	500	294.03	C4532COG1H154J		
	50		0.22µF	±5%	3.2	445-2709-1-ND	35.94	212.36	—	445-2709-2-ND	500	294.03	C4532COG1H224J		
	X7R		2000	2200pF	±10%	1.3	445-2389-1-ND	14.98	88.48	255.23	445-2389-2-ND	1,000	245.39	C4532X7R3D222K	
			1000	4700pF	±10%	1.6	445-2387-1-ND	14.98	88.48	255.23	445-2387-2-ND	1,000	245.39	C4532X7R3A472K	
			1000	10000pF	±10%	2.0	445-2388-1-ND	14.98	88.48	255.23	445-2388-2-ND	1,000	245.39	C4532X7R3A103K	
			630	0.1µF	±10%	2.3	445-2300-1-ND	17.97	106.18	—	445-2300-2-ND	500	147.02	C4532X7R2J104K	
			250	0.22µF	±10%	2.3	445-2298-1-ND	17.43	102.99	—	445-2298-2-ND	500	142.66	C4532X7R2E224K	
			250	0.47µF	±10%	2.3	445-2299-1-ND	23.96	141.57	—	445-2299-2-ND	500	196.02	C4532X7R2E474K	
			100	1.0µF	±10%	2.3	445-1438-1-ND	17.97	106.18	—	445-1438-2-ND	500	147.02	C4532X7R2A105K	
			100	1.0µF	±20%	2.3	445-1411-1-ND	27.12	160.21	—	445-1411-2-ND	500	221.83	C4532X7R2A105M	
			100	2.2µF	±20%	2.3	445-1439-1-ND	23.96	141.57	—	445-1439-2-ND	500	196.02	C4532X7R2A225M	
			50	2.2µF	±20%	1.6	445-1447-1-ND	15.57	92.02	265.45	445-1447-2-ND	1,000	254.83	C4532X7R1H225M	
			50	4.7µF	±20%	2.3	445-1448-1-ND	17.97	106.18	306.28	445-1448-2-ND	1,000	294.03	C4532X7R1H475M	
			50	6.8µF	±20%	2.5	445-1449-1-ND	21.56	127.41	—	445-1449-2-ND	500	176.42	C4532X7R1H685M	
			25	4.7µF	±20%	1.6	445-1446-1-ND	16.18	95.56	—	445-1446-2-ND	1,000	264.63	C4532X7R1E475M	
			25	10µF	±20%	2.5	445-1445-1-ND	17.97	106.18	—	445-1445-2-ND	500	147.02	C4532X7R1E106M	
			25	22µF	±20%	2.5	445-1607-1-ND	23.96	141.57	—	445-1607-2-ND	500	196.02	C4532X7R1E226M	
16			22µF	±20%	2.5	445-1442-1-ND	34.09	201.41	—	445-1442-2-ND	500	176.42	C4532X7R1C226M		
X5R			25	22µF	±20%	2.5	445-1444-1-ND	23.96	141.57	—	445-1444-2-ND	500	196.02	C4532X5R1E226M	
			16	33µF	±20%	2.5	445-1443-1-ND	41.90	247.61	—	445-1443-2-ND	500	342.84	C4532X5R1C336M	
			10	22µF	±20%	2.0	445-1412-1-ND	30.99	183.10	—	445-1412-2-ND	500	253.52	C4532X5R1A226M	
			10	33µF	±20%	2.0	445-1441-1-ND	23.96	141.57	—	445-1441-2-ND	500	196.02	C4532X5R1A336M	
			10	47µF	±20%	2.8	445-1440-1-ND	33.54	198.20	—	445-1440-2-ND	500	274.43	C4532X5R1A476M	
		6.3	100µF	±20%	2.8	445-1413-1-ND	41.93	247.75	—	445-1413-2-ND	500	343.04	C4532X5R0J107M		
Y5V		50	10µF	+80/-20%	2.5	445-3483-1-ND	21.96	129.77	374.35	445-3483-2-ND	1,000	359.37	C4532Y5V1H106Z		
		25	22µF	+80/-20%	2.5	445-3482-1-ND	21.96	129.77	374.35	445-3482-2-ND	1,000	359.37	C4532Y5V1E226Z		
		16	47µF	+80/-20%	2.5	445-3481-1-ND	21.96	129.77	—	445-3481-2-ND	500	179.69	C4532Y5V1C476Z		
		10	100µF	+80/-20%	2.5	445-1414-1-ND	39.93	235.95	—	445-1414-2-ND	500	326.70	C4532Y5V1A107Z		
		2220	X7R	630	0.22µF	±10%	2.3	445-2305-1-ND	46.48	274.65	—	445-2305-2-ND	500	380.42	C5750X7R2J224K
				250	0.47µF	±10%	2.3	445-2303-1-ND	40.67	240.31	—	445-2303-2-ND	500	332.87	C5750X7R2E474K
250				1.0µF	±10%	2.3	445-2304-1-ND	46.48	274.65	—	445-2304-2-ND	500	380.42	C5750X7R2E105K	
100				1.0µF	±10%	2.3	445-2301-1-ND	40.67	240.31	—	445-2301-2-ND	500	332.87	C5750X7R2A105K	
100				2.2µF	±20%	2.3	445-2302-1-ND	46.48	274.65	—	445-2302-2-ND	500	380.42	C5750X7R2A225M	
100				4.7µF	±20%	2.3	445-1450-1-ND	58.10	343.31	—	445-1450-2-ND	500	475.35	C5750X7R2A475M	
X7R			50	4.7µF	±10%	2.0	445-3488-1-ND	38.33	226.51	—	445-3488-2-ND	500	313.63	C5750X7R1H475K	
			50	4.7µF	±20%	2.0	445-3489-1-ND	35.94	212.36	—	445-3489-2-ND	500	294.03	C5750X7R1H475M	
			50	6.8µF	±10%	2.5	445-3490-1-ND	39.93	235.95	—	445-3490-2-ND	500	326.70	C5750X7R1H685K	
			50	6.8µF	±20%	2.5	445-3491-1-ND	35.94	212.36	—	445-3491-2-ND	500	294.03	C5750X7R1H685M	
	50		10µF	±10%	2.3	445-3492-1-ND	36.34	214.71	—	445-3492-2-ND	500	297.30	C5750X7R1H106K		
	50		10µF	±20%	2.3	445-1454-1-ND	35.94	212.36	—	445-1454-2-ND	500	294.03	C5750X7R1H106M		
	25		10µF	±20%	2.0	445-3493-1-ND	35.94	212.36	—	445-3493-2-ND	500	294.03	C5750X7R1E106M		
	25		15µF	±20%	2.3	445-3494-1-ND	47.92	283.14	—	445-3494-2-ND	500	392.04	C5750X7R1E156M		
	25		22µF	±20%	2.5	445-1453-1-ND	55.77	329.57	—	445-1453-2-ND	500	456.33	C5750X7R1E226M		
	16		22µF	±20%	2.3	445-3495-1-ND	39.93	235.95	—	445-3495-2-ND	500	326.70	C5750X7R1C226M		
	16		47µF	±20%	2.3	445-3496-1-ND	47.92	283.14	—	445-3496-2-ND	500	392.04	C5750X7R1C476M		
	X5R		50	10µF	±10%										



CKG Series 2-Chip Piled Multilayer Ceramic Capacitors



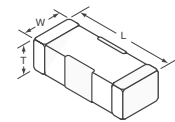
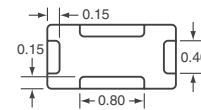
Features: • No polarity • Twice the capacitance is obtainable on a single capacitor space • Unique construction provides high reliability • Metal caps absorb stress from thermal and mechanical shocks, ensuring excellent performance on aluminum circuit substrates • Low ESR and ESL promises

excellent characteristics for high frequency switching power supply applications: • Smoothing circuits, temperature variable applications • Main-tenance free power supplies, DC to DC converters and automotive Operating Temperature: • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Series	Dimensions - mm		
	L	W	E
CKG45N	5.5	4.0	1.4
CKG57N	6.5	5.5	1.9

Series	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 1,000	TDK Part No.
						10	100	500			
CKG45N	X7R	630	0.22µF	±20%	445-2396-1-ND	78.90	466.24	1344.92	445-2396-2-ND	1290.83	CKG45NX7R2J224M
		250	0.47µF	±20%	445-2395-1-ND	67.53	399.00	1150.94	445-2395-2-ND	1104.97	CKG45NX7R2E474M
		100	2.2µF	±20%	445-2394-1-ND	74.35	439.34	1267.33	445-2394-2-ND	1216.78	CKG45NX7R2A225M
		50	3.3µF	±20%	445-2393-1-ND	70.56	416.93	1202.66	445-2393-2-ND	1154.34	CKG45NX7R1H335M
		25	10µF	±20%	445-2392-1-ND	68.28	403.47	1163.87	445-2392-2-ND	1117.31	CKG45NX7R1E106M
		16	22µF	±20%	445-2391-1-ND	75.87	448.31	1293.19	445-2391-2-ND	1241.46	CKG45NX7R1C226M
CKG57N	X7R	630	0.47µF	±20%	445-2401-1-ND	75.87	448.31	1293.19	445-2401-2-ND	1241.46	CKG57NX7R2J474M
		250	1.0µF	±20%	445-2400-1-ND	79.66	470.72	1357.85	445-2400-2-ND	1303.90	CKG57NX7R2E105M
		100	2.2µF	±20%	445-1658-1-ND	36.00	314.50	1241.46	445-1658-2-ND	1489.75	CKG57NX7R2A225M
		100	4.7µF	±20%	445-1659-1-ND	38.25	334.16	1319.05	445-1659-2-ND	1582.86	CKG57NX7R2A475M
		50	10µF	±20%	445-2399-1-ND	83.45	493.14	1422.51	445-2399-2-ND	1365.61	CKG57NX7R1H106M
		25	22µF	±20%	445-2398-1-ND	83.45	493.14	1422.51	445-2398-2-ND	1365.61	CKG57NX7R1E226M
CKG57N	X5R	50	22µF	±20%	445-1655-1-ND	38.41	335.47	1324.22	445-1655-2-ND	1589.07	CKG57NX5R1E226M
		25	47µF	±20%	445-1657-1-ND	44.40	387.89	1531.13	445-1657-2-ND	1837.36	CKG57NX5R1E476M
		16	100µF	±20%	445-1656-1-ND	51.00	445.55	1758.74	445-1656-2-ND	2110.48	CKG57NX5R1C107M
		50	10µF	±20%	445-1660-1-ND	42.01	366.92	1448.37	445-1660-2-ND	1738.04	CKG45NX5R1H106M
		16	47µF	±20%	445-2390-1-ND	83.45	493.14	1422.51	445-2390-2-ND	1365.61	CKG45NX5R1C476M
		50	10µF	±20%	445-2401-1-ND	75.87	448.31	1293.19	445-2401-2-ND	1241.46	CKG57NX7R2J474M

CKD Series 3-Terminal Feed Through Multilayer Ceramic Chip Capacitors



Features: • Small low-cost filters used for meeting EMC requirements • Can be used up to even higher frequencies due to low parasitic inductance • Optimized for use as a noise bypass capacitors for signal and power source circuits

Applications: For digital and analog signal line noise bypassing signal line

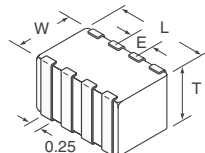
Series (Case Size)	WV DC	Capacitance	Tolerance (%)	Dimensions - mm			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
				L	W	T		10	100	500		Qty.	Pricing	
Signal Line														
CKD510JB (0805)	50	22pF	+50, -20	2.00	1.25	0.85	445-3011-1-ND	3.19	18.88	54.45	445-3011-2-ND	4,000	52.28/M	CKD510JB1H220S
	50	47pF	+50, -20	2.00	1.25	0.85	445-3012-1-ND	3.19	18.88	54.45	445-3012-2-ND	4,000	52.28/M	CKD510JB1H470S
	50	100pF	+50, -20	2.00	1.25	0.85	445-3013-1-ND	3.19	18.88	54.45	445-3013-2-ND	4,000	52.28/M	CKD510JB1H101S
	50	220pF	+50, -20	2.00	1.25	0.85	445-3014-1-ND	3.19	18.88	54.45	445-3014-2-ND	4,000	52.28/M	CKD510JB1H221S
	50	470pF	+50, -20	2.00	1.25	0.85	445-3015-1-ND	3.19	18.88	54.45	445-3015-2-ND	4,000	52.28/M	CKD510JB1H471S
	50	1000pF	+50, -20	2.00	1.25	0.85	445-3016-1-ND	3.19	18.88	54.45	445-3016-2-ND	4,000	52.28/M	CKD510JB1H102S
CKD110JB (1205)	25	22pF	+50, -20	3.20	1.25	0.85	445-3009-1-ND	3.59	21.24	61.26	445-3009-2-ND	4,000	58.81/M	CKD110JB1E220S
	25	47pF	+50, -20	3.20	1.25	0.85	445-3000-1-ND	3.59	21.24	61.26	445-3000-2-ND	4,000	58.81/M	CKD110JB1E470S
	25	100pF	+50, -20	3.20	1.25	0.85	445-3001-1-ND	3.59	21.24	61.26	445-3001-2-ND	4,000	58.81/M	CKD110JB1E101S
	25	220pF	+50, -20	3.20	1.25	0.85	445-3002-1-ND	3.59	21.24	61.26	445-3002-2-ND	4,000	58.81/M	CKD110JB1E221S
	25	470pF	+50, -20	3.20	1.25	0.85	445-3003-1-ND	3.59	21.24	61.26	445-3003-2-ND	4,000	58.81/M	CKD110JB1E471S
	25	1000pF	+50, -20	3.20	1.25	0.85	445-3004-1-ND	3.59	21.24	61.26	445-3004-2-ND	4,000	58.81/M	CKD110JB1E102S
	25	2200pF	+50, -20	3.20	1.25	0.85	445-3005-1-ND	3.59	21.24	61.26	445-3005-2-ND	4,000	58.81/M	CKD110JB1E222S
	25	4700pF	+50, -20	3.20	1.25	0.85	445-3006-1-ND	3.59	21.24	61.26	445-3006-2-ND	4,000	58.81/M	CKD110JB1E472S
	25	10000pF	+50, -20	3.20	1.25	0.85	445-3007-1-ND	3.99	23.60	68.06	445-3007-2-ND	4,000	65.34/M	CKD110JB1E103S
	25	22000pF	+50, -20	3.20	1.25	0.85	445-3008-1-ND	3.99	23.60	68.06	445-3008-2-ND	4,000	65.34/M	CKD110JB1E223S
	25	47000pF	+50, -20	3.20	1.25	0.85	445-3009-1-ND	3.99	23.60	68.06	445-3009-2-ND	4,000	65.34/M	CKD110JB1E473S
	25	1µF	+50, -20	3.20	1.25	0.85	445-3010-1-ND	3.99	23.60	68.06	445-3010-2-ND	4,000	65.34/M	CKD110JB1E104S
Power Line														
CKD61JB (0603)	6.3	47µF	+50, -20	1.60	0.80	0.60	445-3028-1-ND	3.99	23.60	68.06	445-3028-2-ND	4,000	65.34/M	CKD61JB0J474S
CKD610JB (0603)	6.3	1µF	+50, -20	1.60	0.80	0.80	445-3029-1-ND	3.99	23.60	68.06	445-3029-2-ND	4,000	65.34/M	CKD610JB0J105S
	6.3	2.2µF	+50, -20	1.60	0.80	0.80	445-3030-1-ND	4.79	28.31	81.68	445-3030-2-ND	4,000	78.41/M	CKD610JB0J225S
CKD510JB (0805)	25	10000pF	+50, -20	2.00	1.25	0.85	445-3019-1-ND	3.59	21.24	61.26	445-3019-2-ND	4,000	58.81/M	CKD510JB1E105S
	25	22000pF	+50, -20	2.00	1.25	0.85	445-3020-1-ND	3.59	21.24	61.26	445-3020-2-ND	4,000	58.81/M	CKD510JB1E225S
	25	47000pF	+50, -20	2.00	1.25	0.85	445-3021-1-ND	3.59	21.24	61.26	445-3021-2-ND	4,000	58.81/M	CKD510JB1E475S
	25	1µF	+50, -20	2.00	1.25	0.85	445-3022-1-ND	3.59	21.24	61.26	445-3022-2-ND	4,000	58.81/M	CKD510JB1E104S
	10	1µF	+50, -20	2.00	1.25	0.85	445-3027-1-ND	4.39	25.95	74.87	445-3027-2-ND	4,000	71.88/M	CKD510JB1A105S
CKD310JB (1206)	16	1µF	+50, -20	3.20	1.60	1.60	445-3023-1-ND	3.99	23.60	68.06	445-3023-2-ND	2,000	65.34/M	CKD310JB1C104S
	16	22µF	+50, -20	3.20	1.60	1.60	445-3024-1-ND	3.99	23.60	68.06	445-3024-2-ND	2,000	65.34/M	CKD310JB1C224S
	16	47µF	+50, -20	3.20	1.60	1.60	445-3025-1-ND	3.99	23.60	68.06	445-3025-2-ND	2,000	65.34/M	CKD310JB1C474S
	16	1µF	+50, -20	3.20	1.60	1.60	445-3026-1-ND	4.79	28.31	81.68	445-3026-2-ND	2,000	78.41/M	CKD310JB1C105S

CLL Series Ultra Low Inductance Multilayer Ceramic Chip Capacitors



Features: • Unique internal structure that cancels magnetic fields to reduce inductance • Compact and lightweight • Supports lead free soldering

Applications: Power supply circuits for CPUs and high speed digital ICs



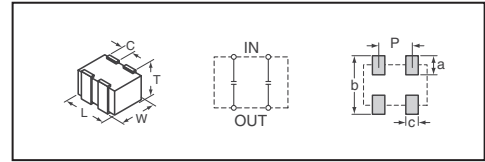
Series	Type	WV DC	Capacitance (µF)	Tolerance	Dimensions - mm				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing 4,000	TDK Part No.
					L	W	T max.	E		10	100	500			
CLL1A (0306)	X7S	4.0	33	±20%	1.6	0.8	0.55	0.4	445-3391-1-ND	5.19	30.67	88.48	445-3391-2-ND	84.95/M	CLL1AX7S0G334M
		4.0	47	±20%	1.6	0.8	0.55	0.4	445-3392-1-ND	3.99	23.60	68.06	445-3392-2-ND	65.34/M	CLL1AX7S0G474M
		4.0	68	±20%	1.6	0.8	0.55	0.4	445-3393-1-ND	5.59	33.03	95.29	445-3393-2-ND	91.48/M	CLL1AX7S0G684M
		4.0	1.0	±20%	1.6	0.8	0.55	0.4	445-3394-1-ND	3.59	21.24	61.26	445-3394-2-ND	58.81/M	CLL1AX7S0G105M
		10.0	0.1	±20%	2.0	1.25	0.55	0.5	445-3395-1-ND	3.59	21.24	61.26	445-3395-2-ND	58.81/M	CLL1AX7R1A104M
		10.0	0.15	±20%	2.0	1.25	0.55	0.5	445-3396-1-ND	3.99	23.60	68.06	445-3396-2-ND	65.34/M	CLL1AX7R1A154M
CLL1E1A (0508)	X7R	10.0	0.22	±20%	2.0	1.25	0.55	0.5	445-3397-1-ND	3.59	21.24	61.26	445-3397-2-ND	58.81/M	CLL1AX7R1A224M
		10.0	0.33	±20%	2.0	1.25	0.55	0.5	445-3398-1-ND	3.99	23.60	68.06	445-3398-2-ND	65.34/M	CLL1AX7R1A334M
		6.3	0.47	±20%	2.0	1.25	0.55	0.5	445-3399-1-ND	4.39	25.95	74.87	445-3399-2-ND	71.88/M	CLL1AX7R0J474M
		6.3	0.68	±20%	2.0	1.25	0.55	0.5	445-3400-1-ND	4.79	28.31	81.68	445-3400-2-ND	78.41/M	CLL1AX7R0J684M
		6.3	1.0	±20%	2.0	1.25	0.55	0.5	445-3401-1-ND	4.39	25.95	74.87	445-3401-2-ND	71.88/M	CLL1AX7R0J105M
		6.3	1.5	±20%	2.0	1.25	0.55	0.5	445-3402-1-ND	4.79	28.31	81.68	445-3402-2-ND	78.41/M	CLL1AX7R0J155M
	X7S	4.0	1.0	±20%	2.0	1.25	0.55	0.5	445-3403-1-ND	5.19	30.67	88.48	445-3403-2-ND	84.95/M	CLL1AX7S0G105M
		4.0	1.5	±20%	2.0	1.25									



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

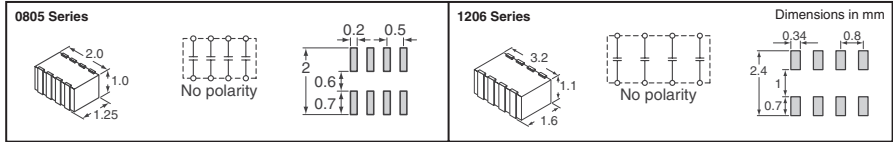
Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.		
						10	100	500		Qty.	Pricing			
0504	COG (NP0)	50	10pF	±1pF	445-1858-1-ND	.47	4.04	16.81	445-1858-2-ND	4,000	18.84/M	CKCM25COG1H100F		
		50	15pF	±10%	445-1859-1-ND	.47	4.04	16.81	445-1859-2-ND	4,000	18.84/M	CKCM25COG1H150K		
		50	22pF	±10%	445-1860-1-ND	.47	4.04	16.81	445-1860-2-ND	4,000	18.84/M	CKCM25COG1H220K		
		50	33pF	±10%	445-1861-1-ND	.47	4.04	16.81	445-1861-2-ND	4,000	18.84/M	CKCM25COG1H330K		
		50	47pF	±10%	445-1862-1-ND	.47	4.04	16.81	445-1862-2-ND	4,000	18.84/M	CKCM25COG1H470K		
		50	68pF	±10%	445-1863-1-ND	.47	4.04	16.81	445-1863-2-ND	4,000	18.84/M	CKCM25COG1H680K		
	X7R	50	1000pF	±20%	445-1865-1-ND	.47	4.04	16.81	445-1865-2-ND	4,000	18.84/M	CKCM25X7R1H102M		
		50	2200pF	±20%	445-1866-1-ND	.47	4.04	16.81	445-1866-2-ND	4,000	18.84/M	CKCM25X7R1H222M		
		25	4700pF	±20%	445-1867-1-ND	.47	4.04	16.81	445-1867-2-ND	4,000	18.84/M	CKCM25X7R1E472M		
		16	10000pF	±20%	445-1868-1-ND	.47	4.04	16.81	445-1868-2-ND	4,000	18.84/M	CKCM25X7R1C103M		
		X5R	10	22000pF	±20%	445-1869-1-ND	.54	4.65	19.41	445-1869-2-ND	4,000	21.73/M	CKCM25X5R1A223M	
			10	47000pF	±20%	445-1870-1-ND	.54	4.65	19.41	445-1870-2-ND	4,000	21.73/M	CKCM25X5R1A473M	
			6.3	10µF	±20%	445-1871-1-ND	.54	4.65	19.41	445-1871-2-ND	4,000	21.73/M	CKCM25X5R0J104M	
			6.3	22µF	±20%	445-1872-1-ND	.83	7.14	29.75	445-1872-2-ND	4,000	33.32/M	CKCM25X5R0J224M	
			6.3	47µF	±20%	445-1873-1-ND	.83	7.14	29.75	445-1873-2-ND	4,000	33.32/M	CKCM25X5R0J474M	
			6.3	10µF	±20%	445-1874-1-ND	.83	7.14	29.75	445-1874-2-ND	4,000	33.32/M	CKCM25X5R0J105M	
		0805	COG (NP0)	50	10pF	±1pF	445-1875-1-ND	.65	5.59	23.28	445-1875-2-ND	4,000	26.07/M	CKCL22COG1H100F
				50	15pF	±10%	445-1876-1-ND	.65	5.59	23.28	445-1876-2-ND	4,000	26.07/M	CKCL22COG1H150K
50	22pF			±10%	445-1877-1-ND	.65	5.59	23.28	445-1877-2-ND	4,000	26.07/M	CKCL22COG1H220K		
50	33pF			±10%	445-1878-1-ND	.65	5.59	23.28	445-1878-2-ND	4,000	26.07/M	CKCL22COG1H330K		
50	47pF			±10%	445-1879-1-ND	.65	5.59	23.28	445-1879-2-ND	4,000	26.07/M	CKCL22COG1H470K		
50	68pF			±10%	445-1880-1-ND	.65	5.59	23.28	445-1880-2-ND	4,000	26.07/M	CKCL22COG1H680K		
X7R	50		100pF	±10%	445-1881-1-ND	.65	5.59	23.28	445-1881-2-ND	4,000	26.07/M	CKCL22X7R1H101K		
	50		150pF	±10%	445-1882-1-ND	.73	6.21	25.87	445-1882-2-ND	4,000	28.97/M	CKCL22X7R1H151K		
	50		220pF	±10%	445-1883-1-ND	.73	6.21	25.87	445-1883-2-ND	4,000	28.97/M	CKCL22X7R1H221K		
	50		330pF	±10%	445-1884-1-ND	.80	6.83	28.45	445-1884-2-ND	4,000	31.87/M	CKCL22X7R1H331K		
	50		470pF	±10%	445-1885-1-ND	.80	6.83	28.45	445-1885-2-ND	4,000	31.87/M	CKCL22X7R1H471K		
	50		1000pF	±20%	445-1886-1-ND	.65	5.59	23.28	445-1886-2-ND	4,000	26.07/M	CKCL22X7R1H102M		
	50		2200pF	±20%	445-1887-1-ND	.65	5.59	23.28	445-1887-2-ND	4,000	26.07/M	CKCL22X7R1H222M		
	50		4700pF	±20%	445-1888-1-ND	.65	5.59	23.28	445-1888-2-ND	4,000	26.07/M	CKCL22X7R1H472M		
	25		10000pF	±20%	445-1889-1-ND	.65	5.59	23.28	445-1889-2-ND	4,000	26.07/M	CKCL22X7R1H103M		
	16		22000pF	±20%	445-1890-1-ND	.65	5.59	23.28	445-1890-2-ND	4,000	26.07/M	CKCL22X7R1E223M		
	25		47000pF	±20%	445-1891-1-ND	.73	6.21	25.87	445-1891-2-ND	4,000	28.97/M	CKCL22X7R1E473M		
	16		10µF	±20%	445-1892-1-ND	.73	6.21	25.87	445-1892-2-ND	4,000	28.97/M	CKCL22X7R1C104M		
	X5R		10	22µF	±20%	445-1893-1-ND	.83	7.14	29.75	445-1893-2-ND	4,000	33.32/M	CKCL22X5R1A224M	
			6.3	47µF	±20%	445-1894-1-ND	.83	7.14	29.75	445-1894-2-ND	4,000	33.32/M	CKCL22X5R0J474M	
			6.3	10µF	±20%	445-1895-1-ND	.91	7.76	32.34	445-1895-2-ND	4,000	36.22/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	.65	5.59	23.28	445-1822-2-ND	4,000	26.07/M	CKCL44COG1H100F	
		50	15pF	±10%	445-1823-1-ND	.65	5.59	23.28	445-1823-2-ND	4,000	26.07/M	CKCL44COG1H150K	
		50	22pF	±10%	445-1824-1-ND	.65	5.59	23.28	445-1824-2-ND	4,000	26.07/M	CKCL44COG1H220K	
		50	33pF	±10%	445-1825-1-ND	.65	5.59	23.28	445-1825-2-ND	4,000	26.07/M	CKCL44COG1H330K	
		50	47pF	±10%	445-1826-1-ND	.65	5.59	23.28	445-1826-2-ND	4,000	26.07/M	CKCL44COG1H470K	
		50	68pF	±10%	445-1827-1-ND	.65	5.59	23.28	445-1827-2-ND	4,000	26.07/M	CKCL44COG1H680K	
	X7R	50	100pF	±10%	445-1828-1-ND	.65	5.59	23.28	445-1828-2-ND	4,000	26.07/M	CKCL44COG1H101K	
		50	150pF	±10%	445-1829-1-ND	.65	5.59	23.28	445-1829-2-ND	4,000	26.07/M	CKCL44COG1H151K	
		50	220pF	±20%	445-1830-1-ND	.65	5.59	23.28	445-1830-2-ND	4,000	26.07/M	CKCL44X7R1H221M	
		50	470pF	±20%	445-1831-1-ND	.65	5.59	23.28	445-1831-2-ND	4,000	26.07/M	CKCL44X7R1H471M	
		50	1000pF	±20%	445-1832-1-ND	.65	5.59	23.28	445-1832-2-ND	4,000	26.07/M	CKCL44X7R1H102M	
		50	2200pF	±20%	445-1833-1-ND	.65	5.59	23.28	445-1833-2-ND	4,000	26.07/M	CKCL44X7R1H222M	
		50	4700pF	±20%	445-1834-1-ND	.65	5.59	23.28	445-1834-2-ND	4,000	26.07/M	CKCL44X7R1H472M	
		25	10000pF	±20%	445-1835-1-ND	.65	5.59	23.28	445-1835-2-ND	4,000	26.07/M	CKCL44X7R1E103M	
		16	22000pF	±20%	445-1836-1-ND	.73	6.21	25.87	445-1836-2-ND	4,000	28.97/M	CKCL44X7R1C223M	
		X5R	10	47000pF	±20%	445-1837-1-ND	.73	6.21	25.87	445-1837-2-ND	4,000	28.97/M	CKCL44X5R1A473M
			6.3	10µF	±20%	445-1838-1-ND	.83	7.14	29.75	445-1838-2-ND	4,000	33.32/M	CKCL44X5R0J104M
			1206	COG (NP0)	50	10pF	±1pF	445-1839-1-ND	.73	6.21	25.87	445-1839-2-ND	2,000
50	15pF				±10%	445-1840-1-ND	.73	6.21	25.87	445-1840-2-ND	2,000	28.97/M	CKCA43COG1H150K
50	22pF				±10%	445-1841-1-ND	.73	6.21	25.87	445-1841-2-ND	2,000	28.97/M	CKCA43COG1H220K
50	33pF				±10%	445-1842-1-ND	.73	6.21	25.87	445-1842-2-ND	2,000	28.97/M	CKCA43COG1H330K
50	47pF	±10%			445-1843-1-ND	.73	6.21	25.87	445-1843-2-ND	2,000	28.97/M	CKCA43COG1H470K	
50	68pF	±10%			445-1844-1-ND	.73	6.21	25.87	445-1844-2-ND	2,000	28.97/M	CKCA43COG1H680K	
X7R	50	100pF		±10%	445-1845-1-ND	.73	6.21	25.87	445-1845-2-ND	2,000	28.97/M	CKCA43COG1H101K	
	50	150pF		±10%	445-1846-1-ND	.73	6.21	25.87	445-1846-2-ND	2,000	28.97/M	CKCA43COG1H151K	
	50	220pF		±10%	445-1847-1-ND	.73	6.21	25.87	445-1847-2-ND	2,000	28.97/M	CKCA43COG1H221K	
	50	330pF		±10%	445-1848-1-ND	.80	6.83	28.45	445-1848-2-ND	2,000	31.87/M	CKCA43COG1H331K	
	50	470pF		±10%	445-1849-1-ND	.80	6.83	28.45	445-1849-2-ND	2,000	31.87/M	CKCA43COG1H471K	
	50	470pF		±20%	445-1850-1-ND	.73	6.21	25.87	445-1850-2-ND	2,000	28.97/M	CKCA43X7R1H471M	
	50	1000pF		±20%	445-1851-1-ND	.73	6.21	25.87	445-1851-2-ND	2,000	28.97/M	CKCA43X7R1H102M	
	50	2200pF		±20%	445-1852-1-ND	.73	6.21	25.87	445-1852-2-ND	2,000	28.97/M	CKCA43X7R1H222M	
	50	4700pF		±20%	445-1853-1-ND	.73	6.21	25.87	445-1853-2-ND	2,000	28.97/M	CKCA43X7R1H472M	
	50	10000pF		±20%	445-1854-1-ND	.73	6.21	25.87	445-1854-2-ND	2,000	28.97/M	CKCA43X7R1H103M	
	25	22000pF		±20%	445-1855-1-ND	.83	7.14	29.75	445-1855-2-ND	2,000	33.32/M	CKCA43X7R1E223M	
	16	47000pF		±20%	445-1856-1-ND	.83	7.14	29.75	445-1856-2-ND	2,000	33.32/M	CKCA43X7R1E473M	
16	10µF	±20%	445-1857-1-ND	.91	7.76	32.34	445-1857-2-ND	2,000	36.22/M	CKCA43X7R1C104M			

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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