

AVX 0805, 1206, 1210 - Multilayer Ceramic Chip Capacitors

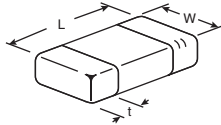


Application Note:

A higher voltage capacitor may be used in a lower voltage application. Also available in various voltages, tolerances, sizes, and temperature coefficients.

Features:

- Temperature coefficient: C0G (NP0) -55°C to +125°C
- X7R -55°C to +125°C
- X5R -55°C to +85°C
- Y5V -30°C to +85°C
- Preferred tolerances: ±5%, 10%, 20%



DIMENSIONS: mm (in.)

Size	0805	1206	1210
(L) Length	1.60 ± 0.15 (.063 ± .006)	3.20 ± 0.20 (.126 ± .008)	3.20 ± 0.20 (.126 ± .008)
(W) Width	0.81 ± 0.15 (.032 ± .006)	1.60 ± 0.20 (.063 ± .008)	2.50 ± 0.20 (.098 ± .008)
(t) Thickness	0.35 ± 0.15 (.014 ± .006)	0.50 ± 0.25 (.020 ± .010)	0.50 ± 0.25 (.020 ± .010)

Style 0805 (Cont.)

For quantities of 20,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			Reel	
						1	100	1000	Qty. Per Reel	Price Each
581-08051C223K	08051C223KAT2A	X7R	.022µF	100	10%	.19	.15	.062	4000	.043
581-08052C223K	08052C223KAT2A	X7R	.022µF	200	10%	.34	.27	.11	2000	.077
581-08055C333K	08055C333KAT2A	X7R	.033µF	50	10%	.15	.13	.052	4000	.036
581-08055C393J	08055C393JAT2A	X7R	.039µF	50	5%	.26	.23	.17	4000	.058
581-08055C393K	08055C393KAT2A	X7R	.039µF	50	10%	.14	.07	.054	4000	.048
581-08053C473J	08053C473JAT2A	X7R	.047µF	25	5%	.26	.23	.17	4000	.058
581-08053C473K	08053C473KAT2A	X7R	.047µF	25	10%	.18	.17	.13	4000	.08
581-08055C473J	08055C473JAT2A	X7R	.047µF	50	5%	.33	.21	.085	4000	.058
581-08055C473K	08055C473KAT2A	X7R	.047µF	50	10%	.11	.065	.026	4000	.018
581-08055C683K	08055C683KAT2A	X7R	.068µF	50	10%	.19	.17	.12	4000	.07
581-08055E103M	08055E103MAT2A	Z5U	0.01µF	50	20%	.16	.14	.10	4000	.06

Style 1206 (Cont.)

For quantities of 20,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			Reel	
						1	100	1000	Qty. Per Reel	Price Each
581-12065C273K	12065C273KAT2A	X7R	.027µF	50	10%	.23	.18	.075	4000	.052
581-12065C333J	12065C333JAT2A	X7R	.033µF	50	5%	.29	.25	.18	4000	.063
581-12065C333K	12065C333KAT2A	X7R	.033µF	50	10%	.20	.18	.075	4000	.052
581-12061C333K	12061C333KAT2A	X7R	.033µF	100	10%	.20	.18	.078	4000	.054
581-12061C393K	12061C393KAT2A	X7R	.039µF	100	10%	.20	.173	.113	4000	.053
581-12065C473J	12065C473JAT2A	X7R	.047µF	50	5%	.22	.117	.081	4000	.063
581-12065C473K	12065C473KAT2A	X7R	.047µF	50	10%	.20	.18	.075	4000	.052
581-12061C473K	12061C473KAT2A	X7R	.047µF	100	10%	.25	.18	.078	4000	.054
581-12062C473K	12062C473KAT2A	X7R	.047µF	200	10%	.42	.25	.16	2000	.14
581-12065C683K	12065C683KAT2A	X7R	.068µF	50	10%	.18	.13	.06	4000	.05
581-12062C683K	12062C683KAT2A	X7R	.068µF	200	10%	.90	.45	.338	2000	.30

Style 1206

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MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (µF)	Volt	Tol. ±	Price Each			Reel	
						1	100	1000	Qty. Per Reel	Price Each
581-12065A4R7C	12065A4R7CAT2A	COG	4.7	50	25pF	.35	.208	.083	4000	.056
581-12065A5R6D	12065A5R6DAT2A	COG	5.6	50	5pF	.40	.24	.052	4000	.04
581-12065A100J	12065A100JAT2A	COG	10	50	5%	.29	.22	.098	4000	.068
581-12061A100J	12061A100JAT2A	COG	10	100	5%	.30	.242	.172	4000	.123
581-12065A150J	12065A150JAT2A	COG	15	50	5%	.34	.24	.098	4000	.068
581-12061A180J	12061A180JAT2A	COG	18	100	5%	.25	.22	.15	4000	.056
581-12061A220J	12061A220JAT2A	COG	22	100	5%	.29	.257	.175	4000	.105
581-12062A220J	12062A220JAT2A	COG	22	200	5%	.26	.22	.08	4000	.066
581-12061A270J	12061A270JAT2A	COG	27	100	5%	.25	.22	.15	4000	.056
581-12065A330J	12065A330JAT2A	COG	33	50	5%	.25	.22	.098	4000	.068
581-12061A330J	12061A330JAT2A	COG	33	100	5%	.53	.362	.08	4000	.063
581-12061A330K	12061A330KAT2A	COG	33	100	10%	.25	.22	.15	4000	.056
581-12065A470J	12065A470JAT2A	COG	47	50	5%	.29	.22	.098	4000	.068
581-12061A470J	12061A470JAT2A	COG	47	100	5%	.42	.35	.28	4000	.22
581-12065A560J	12065A560JAT2A	COG	56	50	5%	.41	.247	.098	4000	.068
581-12065A680J	12065A680JAT2A	COG	68	50	5%	.34	.24	.098	4000	.068
581-12065A101J	12065A101JAT2A	COG	100	50	5%	.33	.22	.098	4000	.068
581-12061A101J	12061A101JAT2A	COG	100	100	5%	.29	.257	.175	4000	.105
581-12061A101K	12061A101KAT2A	COG	100	100	10%	.45	.30	.17	4000	.12
581-12062A101J	12062A101JAT2A	COG	100	200	5%	.30	.243	.097	4000	.068
581-12067A101J	12067A101JAT2A	COG	100	500	5%	.96	.78	.312	4000	.216
581-12065A121J	12065A121JAT2A	COG	120	50	5%	.37	.24	.098	4000	.09
581-12061A121J	12061A121JAT2A	COG	120	100	5%	.25	.22	.15	4000	.082
581-12065A151J	12065A151JAT2A	COG	150	50	5%	.37	.30	.122	4000	.085
581-12061A151J	12061A151JAT2A	COG	150	100	5%	.45	.30	.17	4000	.12
581-12062A151J	12062A151JAT2A	COG	150	200	5%	.45	.266	.106	4000	.074
581-12065A181J	12065A181JAT2A	COG	180	50	5%	.41	.25	.12	4000	.082
581-12065A221J	12065A221JAT2A	COG	220	50	5%	.33	.22	.122	4000	.085
581-12061A221K	12061A221KAT2A	COG	220	100	10%	.30	.20	.063	4000	.058
581-12065A331J	12065A331JAT2A	COG	330	50	5%	.33	.22	.122	4000	.085
581-12061A331J	12061A331JAT2A	COG	330	100	5%	.29	.257	.175	4000	.105
581-12067A331J	12067A331JAT2A	COG	330	500	5%	.91	.743	.423	2000	.263
581-12065A471J	12065A471JAT2A	COG	470	50	5%	.39	.30	.121	4000	.084
581-12061A471J	12061A471JAT2A	COG	470	100	5%	.34	.28	.20	4000	.13
581-12061A471K	12061A471KAT2A	COG	470	100	10%	.37	.24	.096	4000	.067
581-12067A471J	12067A471JAT2A	COG	470	500	5%	1.55	.93	.278	2000	.232
581-12065A681J	12065A681JAT2A	COG	680	50	5%	.37	.30	.121	4000	.084
581-12061A681J	12061A681JAT2A	COG	680	100	5%	.34	.28	.12	4000	.084
581-12065A102J	12065A102JAT2A	COG	1000	50	5%	.34	.28	.121	4000	.084
581-12061A102J	12061A102JAT2A	COG	1000	100	5%	.39	.351	.208	4000	.13
581-12062A102J	12062A102JAT2A	COG	1000	200	5%	.34	.30	.13	2000	.121
581-12061A152J	12061A152JAT2A	COG	1500	100	5%	.37	.32	.163	2000	.11
581-12065A272J	12065A272JAT2A	COG	2700	50	5%	.14	.12	.096	2000	.08
581-12065A332J	12065A332JAT2A	COG	3300	50	5%	.58	.34	.138	2000	.096
581-12065C102J	12065C102JAT2A	X7R	1000	50	5%	.25	.22	.124	4000	.054
581-12065C102K	12065C102KAT2A	X7R	1000	50	10%	.20	.178	.071	4000	.05
581-12061C102K	12061C102KAT2A	X7R	1000	100	10%	.25	.188	.075	4000	.052
581-12061C152K	12061C152KAT2A	X7R	1500	100	10%	.23	.188	.075	4000	.052
581-12067C152K	12067C152KAT2A	X7R	1500	500	10%	.90	.74	.423	2000	.263
581-12065C222K	12065C222KAT2A	X7R	2200	50	10%	.22	.178	.071	4000	.05
581-12061C222K	12061C222KAT2A	X7R	2200	100	10%	.20	.188	.075	4000	.052
581-12061C332K	12061C332KAT2A	X7R	3300	100	10%	.20	.18	.075	4000	.052
581-12065C472K	12065C472KAT2A	X7R	4700	50	10%	.20	.18	.088	4000	.061
581-12061C472K	12061C472KAT2A	X7R	4700	100	10%	.25	.18	.075	4000	.052
581-12067C472K	12067C472KAT2A	X7R	4700	500	10%	1.12	.81	.32	2000	.22
581-12065C103J	12065C103JAT2A	X7R	.01µF	50	5%	.26	.20	.14	4000	.054
581-12065C103K	12065C103KAT2A	X7R	.01µF	50	10%	.19	.081	.04	4000	.039
581-12061C103J	12061C103JAT2A	X7R	.01µF	100	5%	.24	.20	.08	4000	.056
581-12061C103K	12061C103KAT2A	X7R	.01µF	100	10%	.20	.18	.075	4000	.052
581-12062C103J	12062C103JAT2A	X7R	.01µF	200	5%	.46	.28	.152	4000	.096
581-12062C103K	12062C103KAT2A	X7R	.01µF	200	10%	.32	.26	.104	4000	.072
581-12067C103K	12067C103KAT2A	X7R	.01µF	500	10%	1.60	1.30	.52	2000	.36
581-12065C223K	12065C223KAT2A	X7R	.022µF	50	10%	.23	.188	.075	4000	.052
581-12061C223J	12061C223JAT2A	X7R	.022µF	100	5%	.22	.16	.093	4000	.065
581-12061C223K	12061C223KAT2A	X7R	.022µF	100	10%	.25	.18	.078	4000	.054

Style 1210

For quantities of 20,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			Reel	
						1	100	1000	Qty. Per Reel	Price Each
581-12101A471J	12101A471JAT2A	COG	470	100	5%	.36	.32	.27	4000	.23
581-12107A471J	12107A471JAT2A	COG	470	500	5%	1.25	1.05	.54	2000	.315
581-12105A681J	12105A681JAT2A	COG	680	50	5%	.36	.29	.117	4000	.081
581-12102A102K	12102A102KAT2A	COG	1000	200	10%	.40	.311	.211	4000	.131
581-12107A102K	12107A102KAT2A	COG	1000	500	10%	1.00	.78	.56	2000	.35</