

# AVX 0805, 1206, 1210 - Multilayer Ceramic Chip Capacitors

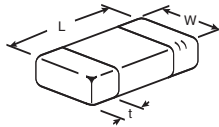


### Application Note:

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 COG (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	1206	1210
(L) Length	3.20 ± 0.20 (.126 ± .008)	3.20 ± 0.20 (.126 ± .008)
(W) Width	1.60 ± 0.20 (.063 ± .008)	2.50 ± 0.20 (.098 ± .008)
(t) Thickness	0.50 ± 0.25 (.020 ± .010)	0.50 ± 0.25 (.020 ± .010)



RoHS Compliant

### 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 Ea.
581-08051C223K	08051C223KAT2A	X7R	.022µF	100	10%	.24	.19	.14	4000	.042
581-08052C223K	08052C223KAT2A	X7R	.022µF	200	10%	.43	.34	.26	2000	.170
581-08055C333K	08055C333KAT2A	X7R	.033µF	50	10%	.19	.15	.11	4000	.060
581-08055C393J	08055C393JAT2A	X7R	.039µF	50	5%	.33	.26	.20	4000	.100
581-08055C393K	08055C393KAT2A	X7R	.039µF	50	10%	.24	.19	.14	4000	.042
581-08053C473J	08053C473JAT2A	X7R	.047µF	25	5%	.33	.26	.20	4000	.100
581-08053C473K	08053C473KAT2A	X7R	.047µF	25	10%	.24	.19	.14	4000	.080
581-08055C473K	08055C473KAT2A	X7R	.047µF	50	5%	.33	.26	.20	4000	.058
581-08055C473K	08055C473KAT2A	X7R	.047µF	50	10%	.19	.15	.11	4000	.060
581-08055C683K	08055C683KAT2A	X7R	.068µF	50	10%	.24	.19	.14	4000	.070
581-08055E103M	08055E103MAT2A	Z5U	0.01µF	50	20%	.21	.16	.12	4000	.060

### 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 Ea.
581-12065C273K	12065C273KAT2A	X7R	.027µF	50	10%	.23	.20	.17	4000	.090
581-12065C333J	12065C333JAT2A	X7R	.033µF	50	5%	.29	.25	.22	4000	.110
581-12065C333K	12065C333KAT2A	X7R	.033µF	50	10%	.20	.18	.15	4000	.080
581-12061C333K	12061C333KAT2A	X7R	.033µF	100	10%	.20	.18	.15	4000	.080
581-12061C393K	12061C393KAT2A	X7R	.039µF	100	10%	.04	.04	.04	4000	.020
581-12065C473J	12065C473JAT2A	X7R	.047µF	50	5%	.22	.20	.17	4000	.080
581-12065C473K	12065C473KAT2A	X7R	.047µF	50	10%	.20	.18	.15	4000	.080
581-12062C473K	12062C473KAT2A	X7R	.047µF	100	10%	.20	.18	.15	4000	.080
581-12065C683K	12065C683KAT2A	X7R	.068µF	200	10%	.34	.29	.25	2000	.170
581-12062C683K	12062C683KAT2A	X7R	.068µF	200	10%	1.20	1.05	.90	2000	.600

### Style 1206

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

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (µF)	Volt	Tol. ±	Price Each			Reel	
						1	100	1000	Qty. Per Reel	Price Ea.
581-12065A4R7C	12065A4R7CAT2A	COG	4.7	50	25pF	.42	.26	.10	4000	.060
581-12065A5R6D	12065A5R6DAT2A	COG	5.6	50	5pF	.40	.24	.10	4000	.040
581-12065A100J	12065A100JAT2A	COG	10	50	5%	.25	.22	.18	4000	.090
581-12065A100J	12061A100JAT2A	COG	10	100	5%	.25	.22	.18	4000	.090
581-12065A150J	12065A150JAT2A	COG	15	50	5%	.27	.24	.20	4000	.100
581-12061A180J	12061A180JAT2A	COG	18	100	5%	.25	.22	.18	4000	.090
581-12061A220J	12061A220JAT2A	COG	22	100	5%	.25	.22	.18	4000	.090
581-12062A220J	12062A220JAT2A	COG	22	200	5%	.10	.09	.08	4000	.050
581-12061A270J	12061A270JAT2A	COG	27	100	5%	.25	.22	.18	4000	.090
581-12065A330J	12065A330JAT2A	COG	33	50	5%	.25	.22	.18	4000	.090
581-12061A330J	12061A330JAT2A	COG	33	100	5%	.46	.31	.18	4000	.050
581-12061A330K	12061A330KAT2A	COG	33	100	10%	.25	.22	.18	4000	.090
581-12065A470J	12065A470JAT2A	COG	47	50	5%	.25	.22	.18	4000	.090
581-12061A470J	12061A470JAT2A	COG	47	100	5%	.25	.22	.18	4000	.090
581-12065A560J	12065A560JAT2A	COG	56	50	5%	.42	.27	.10	4000	.060
581-12065A680J	12065A680JAT2A	COG	68	50	5%	.27	.24	.20	4000	.100
581-12065A101J	12065A101JAT2A	COG	100	50	5%	.25	.22	.18	4000	.090
581-12061A101J	12061A101JAT2A	COG	100	100	5%	.25	.22	.18	4000	.090
581-12061A101K	12061A101KAT2A	COG	100	100	10%	.25	.22	.18	4000	.090
581-12062A101J	12062A101JAT2A	COG	100	200	5%	.30	.26	.23	4000	.110
581-12067A101J	12067A101JAT2A	COG	100	500	5%	.96	.84	.72	4000	.360
581-12065A121J	12065A121JAT2A	COG	120	50	5%	.37	.33	.28	4000	.140
581-12061A121J	12061A121JAT2A	COG	120	100	5%	.25	.22	.18	4000	.090
581-12065A151J	12065A151JAT2A	COG	150	50	5%	.37	.33	.28	4000	.140
581-12061A151J	12061A151JAT2A	COG	150	100	5%	.25	.22	.18	4000	.090
581-12062A151J	12062A151JAT2A	COG	150	200	5%	.58	.39	.20	4000	.070
581-12065A181J	12065A181JAT2A	COG	180	50	5%	.41	.25	.10	4000	.080
581-12065A221J	12065A221JAT2A	COG	220	50	5%	.25	.22	.18	4000	.090
581-12061A221K	12061A221KAT2A	COG	220	100	10%	.25	.22	.18	4000	.090
581-12065A331J	12065A331JAT2A	COG	330	50	5%	.25	.22	.18	4000	.090
581-12061A331J	12061A331JAT2A	COG	330	100	5%	.25	.22	.18	4000	.090
581-12067A331J	12067A331JAT2A	COG	330	500	5%	1.20	1.05	.90	2000	.600
581-12065A471J	12065A471JAT2A	COG	470	50	5%	.34	.30	.26	4000	.130
581-12061A471J	12061A471JAT2A	COG	470	100	5%	.34	.30	.26	4000	.130
581-12061A471K	12061A471KAT2A	COG	470	100	10%	.30	.26	.22	4000	.110
581-12067A471J	12067A471JAT2A	COG	470	500	5%	.39	.35	.31	2000	.230
581-12065A681J	12065A681JAT2A	COG	680	50	5%	.37	.33	.28	4000	.140
581-12061A681J	12061A681JAT2A	COG	680	100	5%	.34	.30	.26	4000	.130
581-12065A102J	12065A102JAT2A	COG	1000	50	5%	.34	.30	.26	4000	.130
581-12061A102J	12061A102JAT2A	COG	1000	100	5%	.34	.30	.26	4000	.130
581-12062A102J	12062A102JAT2A	COG	1000	200	5%	.34	.30	.26	2000	.170
581-12061A152J	12061A152JAT2A	COG	1500	100	5%	.37	.32	.27	2000	.180
581-12065A272J	12065A272JAT2A	COG	2700	50	5%	.14	.12	.11	2000	.080
581-12065A332J	12065A332JAT2A	COG	3300	50	5%	.69	.41	.16	2000	.100
581-12065C102J	12065C102JAT2A	X7R	1000	50	5%	.25	.22	.19	4000	.090
581-12065C102K	12065C102KAT2A	X7R	1000	50	10%	.20	.18	.15	4000	.080
581-12061C102K	12061C102KAT2A	X7R	1000	100	10%	.20	.18	.15	4000	.080
581-12061C152K	12061C152KAT2A	X7R	1500	100	10%	.23	.20	.17	4000	.090
581-12067C152K	12067C152KAT2A	X7R	1500	500	10%	1.20	1.05	.90	2000	.600
581-12065C222K	12065C222KAT2A	X7R	2200	50	10%	.22	.19	.17	4000	.080
581-12061C222K	12061C222KAT2A	X7R	2200	100	10%	.20	.18	.15	4000	.080
581-12061C332K	12061C332KAT2A	X7R	3300	100	10%	.20	.18	.15	4000	.080
581-12065C472K	12065C472KAT2A	X7R	4700	50	10%	.20	.18	.15	4000	.080
581-12061C472K	12061C472KAT2A	X7R	4700	100	10%	.20	.18	.15	4000	.080
581-12067C472K	12067C472KAT2A	X7R	4700	500	10%	1.12	.98	.84	2000	.560
581-12065C103J	12065C103JAT2A	X7R	.01µF	50	5%	.22	.20	.17	4000	.080
581-12065C103K	12065C103KAT2A	X7R	.01µF	50	10%	.20	.18	.15	4000	.080
581-12061C103J	12061C103JAT2A	X7R	.01µF	100	5%	.22	.20	.17	4000	.080
581-12061C103K	12061C103KAT2A	X7R	.01µF	100	10%	.20	.18	.15	4000	.080
581-12062C103J	12062C103JAT2A	X7R	.01µF	200	5%	.37	.32	.28	4000	.140
581-12062C103K	12062C103KAT2A	X7R	.01µF	200	10%	.32	.28	.24	4000	.120
581-12067C103K	12067C103KAT2A	X7R	.01µF	500	10%	1.60	1.40	1.20	2000	.800
581-12065C223K	12065C223KAT2A	X7R	.022µF	50	10%	.23	.20	.17	4000	.090
581-12061C223J	12061C223JAT2A	X7R	.022µF	100	5%	.22	.20	.17	4000	.080
581-12061C223K	12061C223KAT2A	X7R	.022µF	100	10%	.20	.18	.15	4000	.080

### 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 Ea.
581-12101A471J	12101A471JAT2A	COG	470	100	5%	.36	.32	.27	4000	.140
581-12107A471J	12107A471JAT2A	COG	470	500	5%	1.44	1.26	1.08	2000	.720
581-12105A681J	12105A681JAT2A	COG	680	50	5%	.36	.32	.27	4000	.140
581-12102A102K	12102A102KAT2A	COG	1000	200	10%	.60	.53	.45	4000	.230
581-12107A102K	12107A102KAT2A	COG	1000	500	10%	1.60	1.40	1.20	2000	.800
581-12102A122K	12102A122KAT2A	COG	1200	200	10%	.60	.53	.45	4000	.230
581-12102A152F	12102A152FAT2A	COG	1500	200	1%	3.90	3.41	2.93	2000	1.95