

# AVX 0603, 0805 - 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.

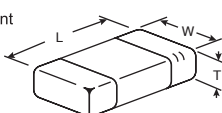
### Features:

- 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%



RoHS Compliant

Dimensions mm (IN)



Size	0805	1206
(L)	2.01 ± .20 (.079 ± .008)	3.20 ± 0.20 (.126 ± .008)
(W)	1.25 ± .20 (.049 ± .008)	1.60 ± 0.20 (.063 ± .008)
(T)	.50 ± .25 (.020 ± .010)	.50 ± .25 (.020 ± .010)

### Style 0603 (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 Qty
						Price Each				
						1	100	1000	4000	
581-06035A681J	06035A681JAT2A	COG	680	50	5%	.33	.19	.12	.054	
581-06035A681K	06035A681KAT2A	COG	680	50	10%	.33	.19	.12	.054	
581-06035A102K	06035A102KAT2A	COG	1000	25	10%	.36	.21	.13	.090	
581-06035C101K	06035C101KAT2A	X7R	100	50	10%	.22	.13	.06	.040	
581-06031C101K	06031C101KAT2A	X7R	100	100	10%	.22	.13	.06	.040	
581-06035C221K	06035C221KAT2A	X7R	220	50	10%	.22	.13	.06	.040	
581-06035C331K	06035C331KAT2A	X7R	330	50	10%	.22	.13	.06	.040	
581-06035C471K	06035C471KAT2A	X7R	470	50	10%	.12	.07	.03	.020	
581-06035C561J	06035C561JAT2A	X7R	560	50	5%	.35	.21	.07	.050	
581-06035C561K	06035C561KAT2A	X7R	560	50	10%	.16	.13	.05	.034	
581-06035C681K	06035C681KAT2A	X7R	680	50	10%	.16	.13	.05	.034	
581-06031C821K	06031C821KAT2A	X7R	820	100	10%	.22	.13	.06	.040	
581-0603ZC102K	0603ZC102KAT2A	X7R	1000	10	10%	.35	.21	.05	.030	
581-06035C102J	06035C102JAT2A	X7R	1000	50	5%	.11	.09	.04	.025	
581-06035C102K	06035C102KAT2A	X7R	1000	50	10%	.12	.07	.03	.020	
581-06031C102J	06031C102JAT2A	X7R	1000	100	5%	.22	.13	.06	.040	
581-06031C102K	06031C102KAT2A	X7R	1000	100	10%	.22	.13	.06	.040	
581-06035C152K	06035C152KAT2A	X7R	1500	50	10%	.12	.07	.03	.020	
581-06035C182K	06035C182KAT2A	X7R	1800	25	10%	.16	.13	.05	.034	
581-06035C222J	06035C222JAT2A	X7R	2200	50	5%	.35	.21	.07	.045	
581-06035C222K	06035C222KAT2A	X7R	2200	50	10%	.16	.13	.05	.034	
581-06031C222K	06031C222KAT2A	X7R	2200	100	10%	.22	.13	.06	.040	
581-06035C332K	06035C332KAT2A	X7R	3300	50	10%	.35	.21	.07	.045	
581-06031C332K	06031C332KAT2A	X7R	3300	100	10%	.22	.13	.06	.040	
581-0603YC392K	0603YC392KAT2A	X7R	3900	16	10%	.16	.13	.05	.034	
581-06035C472K	06035C472KAT2A	X7R	4700	25	10%	.16	.13	.05	.034	
581-06035C472K	06035C472KAT2A	X7R	4700	50	10%	.35	.21	.07	.045	
581-06031C472K	06031C472KAT2A	X7R	4700	100	10%	.22	.13	.06	.040	
581-06035C562J	06035C562JAT2A	X7R	5600	50	5%	.35	.21	.07	.050	
581-06035C682K	06035C682KAT2A	X7R	6800	50	10%	.16	.13	.05	.034	
581-06033C153J	06033C153JAT2A	X7R	015µF	25	5%	.40	.30	.09	.060	
581-06035C153K	06035C153KAT2A	X7R	015µF	50	10%	.21	.18	.07	.050	
581-0603ZC103K	0603ZC103KAT2A	X7R	01µF	10	10%	.35	.21	.05	.030	
581-0603YC103K	0603YC103KAT2A	X7R	01µF	16	10%	.16	.13	.05	.034	
581-06035C103M	06035C103MAT2A	X7R	01µF	25	20%	.16	.13	.05	.034	
581-06035C103J	06035C103JAT2A	X7R	01µF	50	5%	.80	.45	.30	.250	
581-06035C103K	06035C103KAT2A	X7R	01µF	50	10%	.16	.13	.05	.034	
581-06035C103M	06035C103MAT2A	X7R	01µF	50	20%	.16	.13	.05	.034	
581-06031C103K	06031C103KAT2A	X7R	01µF	100	10%	.39	.23	.11	.070	
581-06035C223J	06035C223JAT2A	X7R	022µF	25	5%	.40	.30	.09	.060	
581-06035C223K	06035C223KAT2A	X7R	022µF	25	10%	.13	.11	.04	.030	
581-06035C223K	06035C223KAT2A	X7R	022µF	50	10%	.13	.11	.04	.030	
581-06035C273J	06035C273JAT2A	X7R	027µF	25	5%	.40	.30	.09	.060	
581-06035C273K	06035C273KAT2A	X7R	027µF	25	10%	.26	.23	.07	.050	
581-06035C333J	06035C333JAT2A	X7R	033µF	50	5%	.35	.21	.09	.060	
581-0603YC473K	0603YC473KAT2A	X7R	047µF	16	10%	.16	.13	.05	.034	
581-06035C473J	06035C473JAT2A	X7R	047µF	25	5%	.60	.35	.15	.100	
581-06035C473K	06035C473KAT2A	X7R	047µF	25	10%	.16	.13	.05	.034	
581-0603YC683K	0603YC683KAT2A	X7R	068µF	16	10%	.35	.21	.09	.060	
581-06035E103Z	06035E103ZAT2A	Z5U	01µF	25	80±20	.24	.14	.08	.050	

### Style 0805 (cont.)

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MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each				Reel	
						Price Each				Qty. Per Reel	Price Ea.
						1	100	1000	4000		
581-08051A390J	08051A390JAT2A	COG	39	100	5%	.20	.16	.12	.040	4000	.040
581-08055A430J	08055A430JAT2A	COG	43	50	5%	.20	.16	.12	.040	4000	.030
581-08055A470J	08055A470JAT2A	COG	47	50	5%	.20	.16	.12	.040	4000	.040
581-08051A470J	08051A470JAT2A	COG	47	100	5%	.20	.16	.12	.040	4000	.040
581-08051A510J	08051A510JAT2A	COG	51	100	5%	.20	.16	.12	.040	4000	.060
581-08055A560J	08055A560JAT2A	COG	56	50	5%	.20	.16	.12	.040	4000	.040
581-08051A560J	08051A560JAT2A	COG	56	100	5%	.20	.16	.12	.040	4000	.040
581-08055A680J	08055A680JAT2A	COG	68	50	5%	.20	.16	.12	.040	4000	.040
581-08051A750J	08051A750JAT2A	COG	75	100	5%	.21	.17	.13	.040	4000	.060
581-08055A820J	08055A820JAT2A	COG	82	50	5%	.20	.16	.12	.040	4000	.060
581-08055A820K	08055A820KAT2A	COG	82	50	10%	.19	.15	.11	.040	4000	.060
581-08055A101J	08055A101JAT2A	COG	100	50	5%	.19	.15	.11	.040	4000	.060
581-08055A101K	08055A101KAT2A	COG	100	50	10%	.19	.15	.11	.040	4000	.060
581-08051A101J	08051A101JAT2A	COG	100	100	5%	.21	.17	.13	.040	4000	.040
581-08051A101K	08051A101KAT2A	COG	100	100	10%	.21	.17	.13	.040	4000	.270
581-08052A101J	08052A101JAT2A	COG	100	200	5%	.34	.27	.20	.100	4000	.100
581-08055A121J	08055A121JAT2A	COG	120	50	5%	.19	.15	.11	.040	4000	.080
581-08055A121K	08055A121KAT2A	COG	120	50	10%	.19	.15	.11	.040	4000	.060
581-08051A121J	08051A121JAT2A	COG	120	100	5%	.21	.17	.13	.040	4000	.060
581-08051A151J	08051A151JAT2A	COG	150	50	5%	.23	.13	.06	.040	4000	.080
581-08051A151J	08051A151JAT2A	COG	150	100	5%	.21	.17	.13	.040	4000	.080
581-08055A201J	08055A201JAT2A	COG	200	50	5%	.26	.21	.16	.040	4000	.080
581-08055A221J	08055A221JAT2A	COG	220	50	5%	.21	.17	.13	.040	4000	.060
581-08051A221J	08051A221JAT2A	COG	220	100	5%	.21	.17	.13	.040	4000	.060
581-08051A221K	08051A221KAT2A	COG	220	100	10%	.21	.17	.13	.040	4000	.060
581-08052A221K	08052A221KAT2A	COG	220	200	10%	.33	.26	.20	.100	4000	.057
581-08051A271J	08051A271JAT2A	COG	270	100	5%	.21	.17	.13	.040	4000	.060
581-08051A301J	08051A301JAT2A	COG	300	100	5%	.26	.21	.16	.040	4000	.080
581-08055A331J	08055A331JAT2A	COG	330	50	5%	.21	.17	.13	.040	4000	.060
581-08055A331K	08055A331KAT2A	COG	330	50	10%	.22	.18	.13	.040	4000	.070
581-08051A331K	08051A331KAT2A	COG	330	100	10%	.21	.17	.13	.040	4000	.060
581-08051A391J	08051A391JAT2A	COG	390	100	5%	.21	.17	.13	.040	4000	.060
581-08055A471J	08055A471JAT2A	COG	470	50	5%	.21	.17	.13	.040	4000	.060
581-08055A471K	08055A471KAT2A	COG	470	50	10%	.22	.18	.13	.040	4000	.070
581-08051A471J	08051A471JAT2A	COG	470	100	5%	.21	.17	.13	.040	4000	.060
581-08055A561J	08055A561JAT2A	COG	560	50	5%	.24	.19	.14	.040	4000	.070
581-08055A681J	08055A681JAT2A	COG	680	50	5%	.24	.19	.14	.040	4000	.070
581-08055A102J	08055A102JAT2A	COG	1000	50	5%	.29	.23	.18	.040	4000	.090
581-08055A102K	08055A102KAT2A	COG	1000	50	10%	.29	.23	.18	.040	4000	.090
581-08051A102J	08051A102JAT2A	COG	1000	100	5%	.31	.25	.19	.040	4000	.090
581-08055A122J	08055A122JAT2A	COG	1200	50	5%	.41	.33	.25	.040	4000	.120
581-08053A152J	08053A152JAT2A	COG	1500	25	5%	.28	.23	.14	.040	4000	.070
581-08055A152J	08055A152JAT2A	COG	1500	50	5%	.41	.33	.25	.040	4000	.120
581-08055A182J	08055A182JAT2A	COG	1800	50	5%	.41	.33	.25	.040	4000	.072
581-08053A222J	08053A222JAT2A	COG	2200	25	5%	.28	.23	.14	.040	4000	.070
581-08055A222J	08055A222JAT2A	COG	2200	50	5%	.41	.33	.25	.040	4000	.160
581-08055A222K	08055A222KAT2A	COG	2200	50	10%	.35	.28	.21	.040	4000	.070
581-08053A332J	08053A332JAT2A	COG	3300	25	5%	.28	.23	.14	.040	4000	