

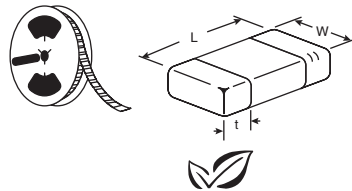
AVX 0201, 0402, 0603 - Multilayer Ceramic Chip Capacitors

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%



Size	0101	0201	0402	0603
Soldering	Reflow Only	Reflow Only	Reflow Only	Reflow Only
Packaging	All Paper	All Paper	PaperAll	PaperPaper
(L)	0.40 ± 0.03	0.60 ± 0.03	1.00 ± 0.10	1.60 ± 0.15
Length	(0.016±0.0008)	(0.024 ± 0.001)	(0.040 ± 0.004)	(0.063 ± 0.006)
(W)	0.20 ± 0.02	0.30 ± 0.03	0.50 ± 0.1	0.81 ± 0.15
Width	(0.008 ± 0.0008)	(0.011 ± 0.001)	(0.020 ± 0.004)	(0.032 ± 0.006)
(t)	0.10 ± 0.04	0.15 ± 0.05	0.25 ± 0.15	0.35 ± 0.15
Terminal	(0.004 ± 0.016)	(0.006 ± 0.002)	(0.010 ± 0.006)	(0.014 ± 0.006)

DIMENSIONS: mm (in.)

Style 0101

RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	20000
581-01016D101KAT2A	01016D101KAT2A	X5R	100	6.3	10%	.23	.085	.056	.030
581-01016D102KAT2A	01016D102KAT2A	X5R	1000	6.3	10%	.23	.085	.056	.030
581-01016D103KAT2A	01016D103KAT2A	X5R	0.01µF	6.3	10%	.23	.085	.056	.030
581-0101YA120JAT2A	0101YA120JAT2A	C0G	12	16	5%	.23	.085	.056	.030
581-0101YA150JAT2A	0101YA150JAT2A	C0G	15	16	5%	.23	.085	.056	.030
581-0101YA1R2BAT2A	0101YA1R2BAT2A	C0G	1.2	16	10pF	.54	.191	.127	.087
581-0101YA2R2BAT2A	0101YA2R2BAT2A	C0G	2.2	16	10pF	.54	.191	.127	.087
581-0101YA3R9BAT2A	0101YA3R9BAT2A	C0G	3.9	16	10pF	.54	.191	.155	.087
581-0101YA3R9CAT2A	0101YA3R9CAT2A	C0G	3.9	16	25pF	.35	.129	.085	.061

Style 0201

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MOUSER STOCK NO.	AVX Part No.	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	15000
581-02013A1R0C	02013A1R0CAT2A	C0G	1.0	25	.25pF	.12	.093	.077	.058
581-02013A2R7C	02013A2R7CAT2A	C0G	2.7	25	.25pF	.22	.16	.129	.098
581-02013A4R7C	02013A4R7CAT2A	C0G	4.7	25	.25pF	.22	.16	.129	.098
581-02013A330J	02013A330JAT2A	C0G	33	25	5%	.12	.093	.077	.058
581-0201YC181K	0201YC181KAT2A	X7R	180	16	10%	.22	.16	.091	.055
581-0201YC331K	0201YC331KAT2A	X7R	330	16	10%	.20	.16	.065	.031
581-0201YC821K	0201YC821KAT2A	X7R	820	16	10%	.22	.16	.091	.055
581-0201YC102K	0201YC102KAT2A	X7R	1000	16	10%	.13	.097	.039	.021
581-020110D103K	0201ZD103KAT2A	X5R	0.01µF	10	10%	.05	.037	.03	.023
581-0201ZG103Z	0201ZG103ZAT2A	Y5V	0.01µF	10	80,±20	.30	.22	.135	.084
581-02016G473Z	02016G473ZAT2A	Y5V	0.047µF	6.3	80,±20	.30	.22	.135	.084

Style 0402

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	10000
581-04025A0R5C	04025A0R5CAT2A	C0G	0.5	50	.25pF	.20	.057	.03	.018
581-04023A1R0B	04023A1R0BAT2A	C0G	1.0	25	0.1pF	.36	.23	.17	.058
581-04025A10C	04025A1R0CAT2A	C0G	1.0	50	.25pF	.20	.057	.03	.019
581-04025A1R2C	04025A1R2CAT2A	C0G	1.2	50	.25pF	.38	.16	.101	.064
581-04025A1R5C	04025A1R5CAT2A	C0G	1.5	50	.25pF	.20	.057	.03	.018
581-04025A2R2C	04025A2R2CAT2A	C0G	2.2	50	.25pF	.33	.127	.078	.05
581-04025A2R7C	04025A2R7CAT2A	C0G	2.7	50	.25pF	.20	.057	.03	.018
581-04025A3R0C	04025A3R0CAT2A	C0G	3.0	50	.25pF	.20	.057	.03	.018
581-04025A3R3C	04025A3R3CAT2A	C0G	3.3	50	.25pF	.20	.057	.03	.018
581-04025A3R9C	04025A3R9CAT2A	C0G	3.9	50	.25pF	.20	.057	.03	.018
581-04025A47C	04025A47R7CAT2A	C0G	4.7	50	.25pF	.33	.127	.078	.05
581-04025A5R6C	04025A5R6CAT2A	C0G	5.6	50	.25pF	.20	.057	.03	.018
581-04025A6R8C	04025A6R8CAT2A	C0G	6.8	50	.25pF	.20	.057	.03	.018
581-04025A100J	04025A100JAT2A	C0G	10	50	5%	.20	.057	.03	.018
581-04025A120J	04025A120JAT2A	C0G	12	50	5%	.20	.057	.03	.018
581-04025A150F	04025A150FAT2A	C0G	15	50	1%	.85	.354	.223	.141
581-04025A150G	04025A150GAT2A	C0G	15	50	2%	.85	.51	.202	.14
581-04025A150J	04025A150JAT2A	C0G	15	50	5%	.20	.057	.03	.018
581-04025A180F	04025A180FAT2A	C0G	18	50	1%	.85	.354	.223	.141
581-04025A180J	04025A180JAT2A	C0G	18	50	5%	.20	.057	.03	.018
581-04023A220K	04023A220KAT2A	C0G	22	25	10%	.30	.195	.13	.057
581-04025A220J	04025A220JAT2A	C0G	22	50	5%	.20	.057	.03	.018
581-04025A270J	04025A270JAT2A	C0G	27	50	5%	.20	.057	.03	.018
581-04025A330J	04025A330JAT2A	C0G	33	50	5%	.20	.057	.03	.018
581-04025A390J	04025A390JAT2A	C0G	39	50	5%	.20	.057	.03	.018
581-04025A470J	04025A470JAT2A	C0G	47	50	5%	.20	.057	.03	.018
581-04025A510J	04025A510JAT2A	C0G	51	50	5%	.33	.127	.078	.05
581-04025A560J	04025A560JAT2A	C0G	56	50	5%	.20	.057	.03	.018
581-04025A680J	04025A680JAT2A	C0G	68	50	5%	.20	.057	.03	.018
581-04025A820J	04025A820JAT2A	C0G	82	50	5%	.33	.127	.078	.05
581-04023A101F	04023A101FAT2A	C0G	100	25	1%	.40	.30	.18	.145
581-04025A101J	04025A101JAT2A	C0G	100	50	5%	.20	.057	.03	.018
581-04023A151J	04023A151JAT2A	C0G	150	25	5%	.30	.195	.12	.06
581-04025A151J	04025A151JAT2A	C0G	150	50	5%	.20	.057	.03	.018
581-04023A181J	04023A181JAT2A	C0G	180	25	5%	.30	.195	.13	.057
581-04025A181J	04025A181JAT2A	C0G	180	50	5%	.16	.046	.024	.015
581-04025C331K	04025C331KAT2A	X7R	330	50	10%	.33	.127	.078	.05
581-04023C151M	04023C151MAT2A	X7R	150	25	20%	.14	.065	.046	.035
581-04025C221K	04025C221KAT2A	X7R	220	50	10%	.20	.057	.03	.018
581-04025C241J	04025C241JAT2A	X7R	240	50	5%	.38	.158	.10	.063
581-04025C271K	04025C271KAT2A	X7R	270	50	10%	.20	.057	.03	.018
581-04023C471J	04023C471JAT2A	X7R	470	25	5%	.41	.25	.11	.08
581-04023C471K	04023C471KAT2A	X7R	470	25	10%	.30	.195	.12	.054
581-04025C471J	04025C471JAT2A	X7R	470	50	5%	.34	.142	.09	.057
581-04025C471K	04025C471KAT2A	X7R	470	50	10%	.20	.057	.03	.018
581-04023C561J	04023C561JAT2A	X7R	560	25	5%	.41	.25	.11	.067
581-04025C561K	04025C561KAT2A	X7R	560	50	10%	.20	.057	.03	.018

Style 0402 (Cont.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	10000
581-04025C681J	04025C681JAT2A	X7R	680	50	5%	.38	.158	.10	.063
581-0402YC681K	0402YC681KAT2A	X7R	680	16	10%	.21	.10	.085	.052
581-04023C102J	04023C102JAT2A	X7R	1000	25	5%	.41	.25	.11	.08
581-04025C102K	04025C102KAT2A	X7R	1000	50	5%	.33	.127	.078	.05
581-04025C102K	04025C102KAT2A	X7R	1000	50	10%	.07	.007	.004	.003
581-04023C152K	04023C152KAT2A	X7R	1500	25	10%	.30	.195	.12	.054
581-04025C152K	04025C152KAT2A	X7R	1500	50	10%	.33	.127	.078	.05
581-04025C222K	04025C222KAT2A	X7R	2200	50	10%	.12	.05	.031	.02
581-04023C472J	04023C472JAT2A	X7R	4700	25	5%	.41	.25	.11	.08
581-04023C472K	04023C472KAT2A	X7R	4700	25	10%	.12	.032	.018	.015
581-04023C682K	04023C682KAT2A	X7R	6800	25	10%	.30	.10	.055	.038
581-0402YC103J	0402YC103JAT2A	X7R	0.01µF	16	5%	.19	.126	.07	.05
581-04021C103K	0402YC103KAT2A	X7R	0.01µF	16	10%	.07	.007	.004	.003
581-04022D473K	04022D473KAT2A	X5R	0.47µF	10	10%	.20	.057	.03	.02
581-040216G104Z	0402YG104ZAT2A	Y5V	0.1µF	16	80,±20	.19	.123	.05	.028

Style 0603

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	4000
581-06035A1R0C	06035A1R0CAT2A	C0G	1.0	50	.25pF	.19	.123	.05	.035
581-06035A1R5C	06035A1R5CAT2A	C0G	1.5	50	.25pF	.19	.123	.05	.035
581-06035A2R2C	06035A2R2CAT2A	C0G	2.2	50	.25pF	.19	.123	.05	.035
581-06035A2R7C	06035A2R7CAT2A	C0G	2.7	50	.25pF	.20			