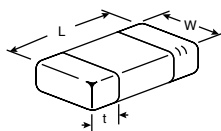
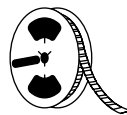


AVX 0201, 0402, 0603 - Multilayer Ceramic Chip Capacitors



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%



RoHS Compliant

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

DIMENSIONS: mm (in.)

Style 0201

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

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	Reel Qty 15000
581-02013A1R0C	02013A1R0CAT2A	C0G	1.0	25	.25pF				
581-02013A2R7C	02013A2R7CAT2A	C0G	2.7	25	.25pF				
581-02013A4R7C	02013A4R7CAT2A	C0G	4.7	25	.25pF				
581-02013A330J	02013A330JAT2A	C0G	33	25	5%				
581-0201YC181K	0201YC181KAT2A	X7R	180	16	10%				
581-0201YC331K	0201YC331KAT2A	X7R	330	16	10%				
581-0201YC821K	0201YC821KAT2A	X7R	820	16	10%				
581-0201YC102K	0201YC102KAT2A	X7R	1000	16	10%				
581-020110D103K	0201ZD103KAT2A	X5R	0.01µF	10	10%				
581-0201ZG103Z	0201ZG103ZAT2A	Y5V	0.01µF	10	80,±20				
581-02016G473Z	02016G473ZAT2A	Y5V	0.047µF	6.3	80,±20				

Style 0402

For quantities of 8,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	Reel Qty 10000
581-04025A0R5C	04025A0R5CAT2A	C0G	0.5	50	.25pF				
581-04023A1R0B	04023A1R0BAT2A	C0G	1.0	25	0.1pF				
581-04025A1.0C	04025A1R0CAT2A	C0G	1.0	50	.25pF				
581-04025A1R2C	04025A1R2CAT2A	C0G	1.2	50	.25pF				
581-04025A1R5C	04025A1R5CAT2A	C0G	1.5	50	.25pF				
581-04025A2R2C	04025A2R2CAT2A	C0G	2.2	50	.25pF				
581-04025A2R7C	04025A2R7CAT2A	C0G	2.7	50	.25pF				
581-04025A3R0C	04025A3R0CAT2A	C0G	3.0	50	.25pF				
581-04025A3R3C	04025A3R3CAT2A	C0G	3.3	50	.25pF				
581-04025A3R9C	04025A3R9CAT2A	C0G	3.9	50	.25pF				
581-04025A4.7C	04025A4R7CAT2A	C0G	4.7	50	.25pF				
581-04025A5R6C	04025A5R6CAT2A	C0G	5.6	50	.25pF				
581-04025A6R8C	04025A6R8CAT2A	C0G	6.8	50	.25pF				
581-04025A100J	04025A100JAT2A	C0G	10	50	5%				
581-04025A120J	04025A120JAT2A	C0G	12	50	5%				
581-04025A150F	04025A150FAT2A	C0G	15	50	1%				
581-04025A150G	04025A150GAT2A	C0G	15	50	2%				
581-04025A150J	04025A150JAT2A	C0G	15	50	5%				
581-04025A180F	04025A180FAT2A	C0G	18	50	1%				
581-04025A180J	04025A180JAT2A	C0G	18	50	5%				
581-04023A220K	04023A220KAT2A	C0G	22	25	10%				
581-04025A220J	04025A220JAT2A	C0G	22	50	5%				
581-04025A270J	04025A270JAT2A	C0G	27	50	5%				
581-04025A330J	04025A330JAT2A	C0G	33	50	5%				
581-04025A390J	04025A390JAT2A	C0G	39	50	5%				
581-04025A470J	04025A470JAT2A	C0G	47	50	5%				
581-04025A510J	04025A510JAT2A	C0G	51	50	5%				
581-04025A560J	04025A560JAT2A	C0G	56	50	5%				
581-04025A680J	04025A680JAT2A	C0G	68	50	5%				
581-04025A820J	04025A820JAT2A	C0G	82	50	5%				
581-04023A101F	04023A101FAT2A	C0G	100	25	1%				
581-04025A101J	04025A101JAT2A	C0G	100	50	5%				
581-04023A151J	04023A151JAT2A	C0G	150	25	5%				
581-04025A151J	04025A151JAT2A	C0G	150	50	5%				
581-04023A181J	04023A181JAT2A	C0G	180	25	5%				
581-04025A181J	04025A181JAT2A	C0G	180	50	5%				
581-04025C331K	04025C331KAT2A	X7R	330	50	10%				
581-04023C151M	04023C151MAT2A	X7R	150	25	20%				
581-04025C221K	04025C221KAT2A	X7R	220	50	10%				
581-04025C241J	04025C241JAT2A	X7R	240	50	5%				
581-04025C271K	04025C271KAT2A	X7R	270	50	10%				
581-04023C471J	04023C471JAT2A	X7R	470	25	5%				
581-04023C471K	04023C471KAT2A	X7R	470	25	10%				
581-04025C471J	04025C471JAT2A	X7R	470	50	5%				
581-04025C471K	04025C471KAT2A	X7R	470	50	10%				
581-04023C561J	04023C561JAT2A	X7R	560	25	5%				
581-04025C561K	04025C561KAT2A	X7R	560	50	10%				
581-04025C681J	04025C681JAT2A	X7R	680	50	5%				
581-0402Y681K	0402Y681KAT2A	X7R	680	16	10%				
581-04023C102J	04023C102JAT2A	X7R	1000	25	5%				
581-04025C102J	04025C102JAT2A	X7R	1000	50	5%				
581-04025C102K	04025C102KAT2A	X7R	1000	50	10%				
581-0402YC102K	0402YC102KAT2A	X7R	1000	16	10%				
581-04023C152K	04023C152KAT2A	X7R	1500	25	10%				
581-04025C152K	04025C152KAT2A	X7R	1500	50	10%				
581-04025C222K	04025C222KAT2A	X7R	2200	50	10%				

Style 0402 (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			
						1	100	1000	Reel Qty 10000
581-04023C472J	04023C472JAT2A	X7R	4700	25	5%				
581-04023C472K	04023C472KAT2A	X7R	4700	25	10%				
581-04023C682K	04023C682KAT2A	X7R	6800	25	10%				
581-0402YC103J	0402YC103JAT2A	X7R	0.01µF	16	5%				
581-040216C103K	0402YC103KAT2A	X7R	0.01µF	16	10%				
581-0402ZD473K	0402ZD473KAT2A	X5R	.047µF	10	10%				
581-040216G104Z	0402YG104ZAT2A	Y5V	0.1µF	16	80,±20				

Style 0603

For quantities of 8,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Temp. Coef.	Value (pF)	Volt	Tol. ±	Price Each			
						1	100	1000	Reel Qty 4000
581-06035A1R0C	06035A1R0CAT2A	C0G	1.0	50	.25pF				
581-06035A1R5C	06035A1R5CAT2A	C0G	1.5	50	.25pF				
581-06033A2R2C	06033A2R2CAT2A	C0G	2.2	25	.25pF				
581-06035A2R2C	06035A2R2CAT2A	C0G	2.2	50	.25pF				
581-06035A3R3C	06035A3R3CAT2A	C0G	3.3	50	.25pF				
581-06035A4R7J	06035A4R7JAT2A	C0G	4.7	50	5%				
581-06035A5R0C	06035A5R0CAT2A	C0G	5.0	50	.25pF				
581-06035A6R8J	06035A6R8JAT2A	C0G	6.8	50	5%				
581-06035A100J	06035A100JAT2A	C0G	10	50	5%				
581-06031A100J	06031A100JAT2A	C0G	10	100	5%				
581-06031A100K	06031A100KAT2A	C0G	10	100	10%				
581-06035A110J	06035A110JAT2A	C0G	11	50	5%				
581-06035A120J	06035A120JAT2A	C0G	12	50	5%				
581-06035A150J	06035A150JAT2A	C0G	15	50	5%				
581-06031A150J	06031A150JAT2A	C0G	15	100	5%				
581-06031A150K	06031A150KAT2A	C0G	15	100	10%				
581-06035A180J	06035A180JAT2A	C0G	18	50	5%				
581-06031A180J	06031A180JAT2A	C0G	18	100	5%				
581-06033A220J	06033A220JAT2A	C0G	22	25	5%				
581-06035A220J	06035A220JAT2A	C0G	22	50	5%				
581-06035A220K	06035A220KAT2A	C0G	22	50	10%				
581-06031A220J	06031A220JAT2A	C0G	22	100	5%				
581-06035A270J	06035A270JAT2A	C0G	27	50	5%				
581-06035A270K	06035A270KAT2A	C0G	27	50	10%				
581-06031A270K	06031A270KAT2A	C0G	27	100	10%				
581-06035A330J	06035A330JAT2A	C0G	33	50	5%				
581-06031A330J	06031A330JAT2A	C0G	33	100	5%				
581-06035A360J	06035A360JAT2A	C0G	36	50	5%				
581-06035A390J	06035A390JAT2A	C0G	39	50	5%				
581-06031A390J	06031A390JAT2A	C0G	39	100	5%				
581-06033A470J	06033A470JAT2A	C0G	47	25	5%				
581-06035A470J	06035A470JAT2A	C0G	47	50	5%				
581-06031A470K	06031A470KAT2A	C0G	47	100	10%				
581-06035A680J	06035A680JAT2A	C0G	68	50	5%				
581-06031A680J	06031A680JAT2A	C0G	68	100	5%				
581-06035A750J	06035A750JAT2A	C0G	75	50	5%				
581-06035A820J	06035A820JAT2A	C0G	82	50	5%				
581-06035A910J	06035A910JAT2A	C0G	91	50	5%				
581-06033A101K	06033A101KAT2A	C0G	100	25	10%				
581-06035A101J	06035A101JAT2A	C0G	100	50	5%				
581-06035A101K	06035A101KAT2A	C0G	100	50	10%				