

# AVX High Voltage MLC Chip Capacitors

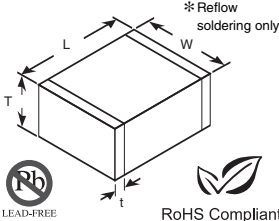


### COG Dielectric Performance Characteristics:

- Dissipation Factor : 0.1% max. (+25°C, 1.0 ± 0.2 Vrms, 1kHz, for ≤ 1000 pF use 1 MHz)
- Operating Temperature Range : -55°C to +125°C
- Temperature Characteristic : 0 ± 30 ppm/°C (0 VDC)
- Dielectric Strength: 120% rated voltage for 5 seconds at 50 mA max. current.

### X7R Dielectric Performance Characteristics:

- Dissipation Factor : 2.5% max. (+25°C, 1.0 ± 0.2 Vrms, 1kHz)
- Operating Temperature Range : -55°C to +125°C
- Temperature Characteristic : 0 ± 30 ppm/°C (0 VDC)
- Dielectric Strength: 120% rated voltage for 5 seconds at 50 mA max. current.



AVX special high voltage MLC chip capacitors meet the performance characteristics and are designed for applications requiring High value, low leakage and small size. These high voltage chip designs exhibit low ESRs at high frequencies.

Size	1206	1210	1808 ±	1812 ±	1825 ±	2225 ±
(L) Length	3.20 ± .20 (.126 ± .008)	3.20 ± .20 (.126 ± .008)	4.57 ± .25 (.180 ± .01)	4.50 ± .30 (.177 ± .012)	4.50 ± .30 (.177 ± .012)	5.72 ± .25 (.225 ± .016)
(W) Width	1.60 ± .20 (.063 ± .008)	2.50 ± .20 (.098 ± .008)	2.03 ± .25 (.080 ± .01)	3.20 ± .20 (.126 ± .008)	6.40 ± .30 (.252 ± .012)	6.35 ± .25 (.250 ± .010)
(T) Thickness Max.	1.52 (.06)	1.70 (.067)	2.03 (.080)	2.54 (.100)	2.54 (.100)	2.54 (.100)
(t) Terminal Min. Max.	.25 (.01) .75 (.03)	.25 (.01) .75 (.03)	.25 (.01) 1.02 (.04)	.25 (.01) 1.02 (.04)	.25 (.01) 1.02 (.04)	.25 (.01) 1.02 (.04)

### Style 1206

For quantities of 4,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Value (pF)	Volt	Tol. ±	Price Each			Reel Qty	Price Per Piece
					1	100	500		
<b>Temperature Coef: COG</b>									
581-1206AA220K	1206AA220KAT1A	22	1000	10%	.62	.54	.46	2000	.31
581-1206GA330K	1206GA330KAT1A	33	2000	10%	.62	.54	.46	2000	.31
581-1206SA390J	1206SA390JAT1A	39	1500	5%	1.03	.90	.77	2000	.52
581-1206AA470K	1206AA470KAT1A	47	1000	10%	.60	.53	.45	2000	.30
581-1206SA101J	1206SA101JAT1A	100	1500	5%	.72	.63	.54	2000	.36
581-1206AA221J	1206AA221JAT1A	220	1000	5%	.72	.63	.54	2000	.36
581-1206AA471J	1206AA471JAT1A	470	1000	5%	.72	.63	.54	2000	.36
<b>Temperature Coef: X7R</b>									
581-1206GC101K	1206GC101KAT1A	100	2000	10%	.60	.53	.45	2000	.30
581-1206GC221K	1206GC221KAT1A	220	2000	10%	.62	.54	.46	2000	.31
581-1206CC471K	1206CC471KAT1A	470	600	10%	.60	.52	.44	2000	.30
581-1206AC471K	1206AC471KAT1A	470	1000	10%	.62	.54	.46	2000	.31
581-1206SC471K	1206SC471KAT1A	470	1500	10%	.66	.58	.49	2000	.33
581-1206CC102K	1206CC102KAT1A	1000	600	10%	.60	.53	.45	2000	.30
581-1206AC102K	1206AC102KAT1A	1000	1000	10%	.60	.53	.45	2000	.30
581-1206GC102K	1206GC102KAT1A	1000	2000	10%	.66	.58	.49	2000	.33
581-1206SC122K	1206SC122KAT1A	1200	1500	10%	1.20	1.05	.90	2000	.60
581-1206AC222K	1206AC222KAT1A	2200	1000	10%	.60	.53	.45	2000	.30
581-1206AC392K	1206AC392KAT1A	3900	1000	10%	.60	.53	.45	2000	.30
581-1206AC472K	1206AC472KAT1A	4700	1000	10%	.60	.53	.45	2000	.30
581-1206CC103K	1206CC103KAT1A	0.01uF	600	10%	.60	.53	.45	2000	.30

### Style 1210

For quantities of 4,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Value (pF)	Volt	Tol. ±	Price Each			Reel Qty	Price Per Piece
					1	100	500		
<b>Temperature Coef: COG</b>									
581-1210SA221K	1210SA221KAT1A	220	1500	10%	1.20	1.05	.90	2000	.60
581-1210AA331K	1210AA331KAT1A	330	1000	10%	.80	.70	.60	2000	.40
<b>Temperature Coef: X7R</b>									
581-1210GC821K	1210GC821KAT1A	820	2000	10%	.80	.70	.60	2000	.40
581-1210AC102K	1210AC102KAT1A	1000	1000	10%	.80	.70	.60	2000	.40
581-1210GC102K	1210GC102KAT1A	1000	2000	10%	.70	.60	.50	2000	.32
581-1210GC102M	1210GC102MAT1A	1000	2000	20%	.78	.69	.59	2000	.39
581-1210AC272K	1210AC272KAT1A	2700	1000	10%	.80	.70	.60	2000	.40
581-1210SC272K	1210SC272KAT1A	2700	1500	10%	.82	.72	.62	2000	.41
581-1210SC272M	1210SC272MAT1A	2700	1500	20%	.78	.69	.59	2000	.39
581-1210AC472K	1210AC472KAT1A	4700	1000	10%	.82	.72	.62	2000	.41
581-1210AC103K	1210AC103KAT1A	0.01uF	1000	10%	.80	.70	.60	2000	.40
581-1210CC223K	1210CC223KAT1A	0.022uF	600	10%	3.76	3.29	2.82	2000	1.88

### Style 1808

For quantities of 4,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Value (pF)	Volt	Tol. ±	Price Each			Reel Qty	Price Per Piece
					1	100	500		
<b>Temperature Coef: COG</b>									
581-1808HA270K	1808HA270KAT1A	27	3000	10%	1.24	1.08	.93	2000	.62
581-1808AA300K	1808AA300KAT1A	30	1000	10%	1.20	1.05	.90	2000	.60
581-1808AA330K	1808AA330KAT1A	33	1000	10%	1.20	1.05	.90	2000	.60
581-1808HA330K	1808HA330KAT1A	33	3000	10%	1.20	1.05	.90	2000	.60
581-1808CA470M	1808CA470MAT1A	47	600	20%	1.18	1.03	.88	2000	.59
581-1808HA470K	1808HA470KAT1A	47	3000	10%	1.24	1.08	.93	2000	.62
581-1808AA680K	1808AA680KAT1A	68	1000	10%	1.14	1.00	.86	2000	.57
581-1808HA820K	1808HA820KAT1A	82	3000	10%	1.20	1.05	.90	2000	.60
581-1808AA101K	1808AA101KAT1A	100	1000	10%	1.44	1.26	1.08	2000	.72
581-1808GA221J	1808GA221JAT1A	220	2000	5%	1.48	1.30	1.11	2000	.74
581-1808AA331K	1808AA331KAT1A	330	1000	10%	1.24	1.08	.93	2000	.62
581-1808AA102K	1808AA102KAT1A	1000	1000	10%	1.24	1.08	.93	2000	.62
<b>Temperature Coef: X7R</b>									
581-1808HC330M	1808HC330MAT1A	33	3000	20%	1.18	1.03	.88	2000	.59
581-1808GC471K	1808GC471KAT1A	470	2000	10%	1.20	1.05	.90	2000	.60
581-1808AC102K	1808AC102KAT1A	1000	1000	10%	.35	.31	.26	2000	.18
581-1808GC102K	1808GC102KAT1A	1000	2000	10%	1.20	1.05	.90	2000	.60
581-1808GC102M	1808GC102MAT1A	1000	2000	20%	.40	.35	.30	2000	.20
581-1808HC102K	1808HC102KAT1A	1000	3000	10%	1.20	1.05	.90	2000	.60
581-1808WC122K	1808WC122KAT1A	1200	2500	10%	1.54	1.34	1.15	2000	.77
581-1808GC152M	1808GC152MAT1A	1500	2000	20%	1.18	1.03	.88	2000	.59
581-1808AC222K	1808AC222KAT1A	2200	1000	10%	1.24	1.08	.93	2000	.62
581-1808AC472K	1808AC472KAT1A	4700	1000	10%	1.20	1.05	.90	2000	.60
581-1808AC682K	1808AC682KAT1A	6800	1000	10%	1.24	1.08	.93	2000	.62
581-1808SC102K	1808SC102KAT1A	1000	1500	10%	1.20	1.05	.90	2000	.60
581-1808AC103K	1808AC103KAT1A	0.01uF	1000	10%	1.24	1.08	.93	2000	.62

### Style 1812

For quantities of 2,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Value (pF)	Volt	Tol. ±	Price Each			Reel Qty	Price Per Piece
					1	100	500		
<b>Temperature Coef: COG</b>									
581-1812HA270K	1812HA270KAT1A	27	3000	10%	1.32	1.15	.99	1000	.82
581-1812HA470J	1812HA470JAT1A	47	3000	5%	1.58	1.39	1.19	1000	.99
581-1812GA560J	1812GA560JAT1A	56	2000	5%	1.28	1.12	.96	1000	.80
581-1812CA101K	1812CA101KAT1A	100	600	10%	1.32	1.15	.99	1000	.82
581-1812AA101J	1812AA101JAT1A	100	1000	5%	1.28	1.12	.96	1000	.80
581-1812HA101K	1812HA101KAT1A	100	3000	10%	1.54	1.34	1.15	1000	.96

### Style 1812 (cont.)

For quantities of 2,000 and up, call for quote.

MOUSER STOCK NO.	AVX Part Number	Value (pF)	Volt	Tol. ±	Price Each			Reel Qty	Price Per Piece
					1	100	500		
<b>Temperature Coef: COG (cont.)</b>									
581-1812GA151J	1812GA151JAT1A	150	2000	5%	1.54	1.34	1.15	1000	.96
581-1812AA221K	1812AA221KAT1A	220	1000	10%	1.32	1.15	.99	1000	.82
581-1812HA221J	1812HA221JAT1A	220	3000	5%	1.54	1.34	1.15	1000	.96
581-1812HA221K	1812HA221KAT1A	220	3000	10%	1.28	1.12	.96	1000	.80
581-1812GA331J	1812GA331JAT1A	330	2000	5%	1.54	1.34	1.15	1000	.96
581-1812AA471J	1812AA471JAT1A	470	1000	5%	1.54	1.34	1.15	1000	.96
581-1812GA471J	1812GA471JAT1A	470	2000	5%	.71	.62	.53	1000	.44
581-1812SA561K	1812SA561KAT1A	560	1500	10%	1.20	1.05	.90	1000	.75
581-1812AA821J	1812AA821JAT1A	820	1000	5%	1.60	1.40	1.20	1000	1.00
581-1812AA102K	1812AA102KAT1A	1000	1000	10%	1.28	1.12	.96	1000	.80
<b>Temperature Coef: X7R</b>									
581-1812GC331M	1812GC331MAT1A	330	2000	20%	1.25	1.10	.94	1000	.78
581-1812HC102K	1812HC102KAT1A	1000	3000	10%	1.44	1.26	1.08	2000	.72
581-1812AC102K	1812AC102KAT1A	1000	1000	10%	1.28	1.12	.96	2000	.64
581-1812GC102K	1812GC102KAT1A	1000	2000	10%	1.28	1.12	.96	1000	.80
581-1812GC102M	1812GC102MAT1A	1000	2000	20%	1.22	1.06	.91	1000	.76
581-1812WC102K	1812WC102KAT1A	1000	2500	10%	1.32	1.15	.99	1000	.82
581-1812WC122M	1812WC122MAT1A	1200	2500	20%	1.68	1.47	1.26	1000	1.05
581-181									