

# Capacitor Array

## Automotive Capacitor Array (IPC)



0508 - 4 Element



0612 - 4 Element

As the market leader in the development and manufacture of capacitor arrays AVX is pleased to offer a range of AEC-Q200 qualified arrays to compliment our product offering to the Automotive industry. Both the AVX 0612 and 0508 4-element capacitor array styles are qualified to the AEC-Q200 automotive specifications.

AEC-Q200 is the Automotive Industry qualification standard and a detailed qualification package is available on request.

All AVX automotive capacitor array production facilities are certified to ISO/TS 16949:2002.

### HOW TO ORDER

<b>W</b>	<b>3</b>	<b>A</b>	<b>4</b>	<b>Y</b>	<b>C</b>	<b>104</b>	<b>K</b>	<b>4</b>	<b>T</b>	<b>2A</b>
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
<b>Style</b> W = RoHS L = SnPb	<b>Case Size</b> 2 = 0508 3 = 0612	<b>Array</b>	<b>Number of Caps</b>	<b>Voltage</b> Z = 10V Y = 16V 3 = 25V 5 = 50V 1 = 100V	<b>Dielectric</b> A = NP0 C = X7R F = X8R	<b>Capacitance Code (In pF)</b> Significant Digits + Number of Zeros e.g. 10µF=106	<b>Capacitance Tolerance</b> *J = ±5% *K = ±10% *M = ±20%	<b>Failure Rate</b> 4 = Automotive	<b>Terminations</b> *T = Plated Ni and Sn *Z = FLEXITERM® B = 5% min lead X = FLEXITERM® with 5% min lead	<b>Packaging &amp; Quantity Code</b> 2A = 7" Reel (4000) 4A = 13" Reel (10000) 2F = 7" Reel (1000)

\*RoHS Compliant

\*Contact factory for availability by part number for K = ±10% and J = ±5% tolerance.

### NP0/COG

SIZE	W2 = 0508				W3 = 0612			
	No. of Elements							
	4				Reflow/Wave			
WVDC	16	25	50	100	16	25	50	100
1R0 Cap 1.0								
1R2 Cap 1.2								
1R5 Cap 1.5								
1R8 1.8								
2R2 2.2								
2R7 2.7								
3R3 3.3								
3R9 3.9								
4R7 4.7								
5R6 5.6								
6R8 6.8								
8R2 8.2								
100 10								
120 12								
150 15								
180 18								
220 22								
270 27								
330 33								
390 39								
470 47								
560 56								
680 68								
820 82								
101 100								
121 120								
151 150								
181 180								
221 220								
271 270								
331 330								
391 390								
471 470								
561 560								
681 680								
821 820								
102 1000								
122 1200								
152 1500								
182 1800								
222 2200								
272 2700								
332 3300								
392 3900								
472 4700								
562 5600								
682 6800								
822 8200								

= NP0/COG

### X7R

SIZE	W2 = 0508				W2 = 0508				W3 = 0612				
	No. of Elements												
	2				4				4				
WVDC	16	25	50	100	16	25	50	100	10	16	25	50	100
101 Cap 100													
121 Cap 120													
151 Cap 150													
181 180													
221 220													
271 270													
331 330													
391 390													
471 470													
561 560													
681 680													
821 820													
102 1000													
122 1200													
152 1500													
182 1800													
222 2200													
272 2700													
332 3300													
392 3900													
472 4700													
562 5600													
682 6800													
822 8200													
103 Cap 0.010													
123 Cap 0.012													
153 Cap 0.015													
153 0.018													
223 0.022													
273 0.027													
333 0.033													
393 0.039													
473 0.047													
563 0.056													
683 0.068													
823 0.082													
104 0.10													
124 0.12													
154 0.15													
224 0.22													

= X7R

\*Not RoHS Compliant



LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT



**RoHS COMPLIANT**

For RoHS compliant products, please select correct termination style.

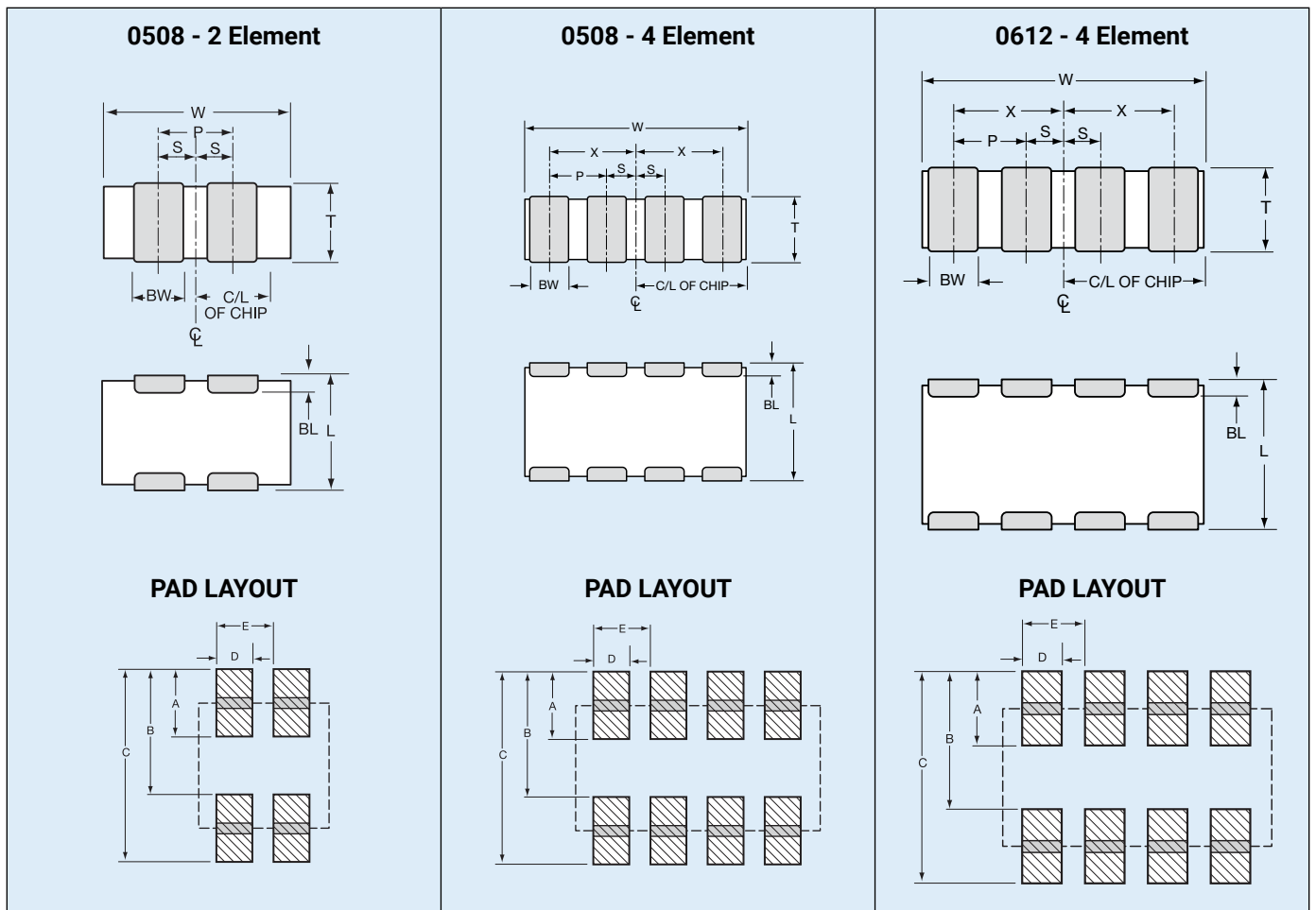
# Capacitor Array

## Part & Pad Layout Dimensions



### PART & PAD LAYOUT DIMENSIONS

millimeters (inches)



### PART DIMENSIONS

#### 0508 - 2 Element

L	W	T	BW	BL	P	S
1.30 ± 0.15 (0.051 ± 0.006)	2.10 ± 0.15 (0.083 ± 0.006)	0.94 MAX (0.037 MAX)	0.43 ± 0.10 (0.017 ± 0.004)	0.33 ± 0.08 (0.013 ± 0.003)	1.00 REF (0.039 REF)	0.50 ± 0.10 (0.020 ± 0.004)

#### 0508 - 4 Element

L	W	T	BW	BL	P	X	S
1.30 ± 0.15 (0.051 ± 0.006)	2.10 ± 0.15 (0.083 ± 0.006)	0.94 MAX (0.037 MAX)	0.25 ± 0.06 (0.010 ± 0.003)	0.20 ± 0.08 (0.008 ± 0.003)	0.50 REF (0.020 REF)	0.75 ± 0.10 (0.030 ± 0.004)	0.25 ± 0.10 (0.010 ± 0.004)

#### 0612 - 4 Element

L	W	T	BW	BL	P	X	S
1.60 ± 0.20 (0.063 ± 0.008)	3.20 ± 0.20 (0.126 ± 0.008)	1.35 MAX (0.053 MAX)	0.41 ± 0.10 (0.016 ± 0.004)	0.18 <sup>+0.25</sup> <sub>-0.08</sub> (0.007 <sup>+0.010</sup> <sub>-0.003</sub> )	0.76 REF (0.030 REF)	1.14 ± 0.10 (0.045 ± 0.004)	0.38 ± 0.10 (0.015 ± 0.004)

### PAD LAYOUT DIMENSIONS

#### 0508 - 2 Element

A	B	C	D	E
0.68 (0.027)	1.32 (0.052)	2.00 (0.079)	0.46 (0.018)	1.00 (0.039)

#### 0508 - 4 Element

A	B	C	D	E
0.56 (0.022)	1.32 (0.052)	1.88 (0.074)	0.30 (0.012)	0.50 (0.020)

#### 0612 - 4 Element

A	B	C	D	E
0.89 (0.035)	1.65 (0.065)	2.54 (0.100)	0.46 (0.018)	0.76 (0.030)

# Mouser Electronics

Authorized Distributor

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## AVX:

[W2A2YC102MAT2A](#) [W2A2YC103MAT2A](#) [W2A41A330KAT2A](#) [W2A43A470KAT2A](#) [W2A45A101KAT2A](#)  
[W2A45C103KAT2A](#) [W2A45C471MAT2A](#) [W2A4YC103KAT2A](#) [W2A4YC103MAT2A](#) [W2A4YC104MAT2A](#)  
[W2A4YD103KAT2A](#) [W2A4ZC103MAT2A](#) [W2A4ZC104MAT2A](#) [W2A4ZD104KAT2A](#) [W2A4ZD104MAT2A](#)  
[W3A41A220KAT2A](#) [W3A41A221KAT2A](#) [W3A41A331KAT2A](#) [W3A41C103KAT2A](#) [W3A41C103MAT2A](#)  
[W3A41C222KAT2A](#) [W3A41C471K4T2A](#) [W3A41C472KAT2A](#) [W3A43A221KAT2A](#) [W3A43C102MAT2A](#)  
[W3A43C332KAT2F](#) [W3A45A101JAT2F](#) [W3A45A101KAT2A](#) [W3A45A330KAT2A](#) [W3A45A470KAT2A](#)  
[W3A45C103KAT2A](#) [W3A45C103MAT2A](#) [W3A45C222KAT2A](#) [W3A45C333MAT2F](#) [W3A45C471MAT2A](#)  
[W3A4YC102MAT2A](#) [W3A4YC103MAT2A](#) [W3A4YC104KAT2A](#) [W3A4YC104MAT2A](#) [W3A45A471KAT2A](#)  
[W3A45C472MAT2A](#) [W3A45C102MAT2A](#) [W3A45C473MAT2A](#) [W3A43C332MAT2F](#) [W3A4YC104MAT1A](#)  
[W3A45A151KAT2A](#) [W2A43C103M4T2A](#) [W3A43C472KAT2A](#) [W2A4YC222KAT2A](#) [W3A43A181KAT2A](#)  
[W3A45A100KAT2A](#) [W3A41A151KAT2A](#) [W3A45A220KAT2A](#) [W2A4YA181KAT2A](#) [W3A45C331KAT2A](#)  
[W2A2YA101KAT2A](#) [W2A2ZC103MAT2A](#) [W2A2ZC473MAT2A](#) [W2A21A101KAT2A](#) [W2A23A101KAT2A](#)  
[W2A23C103MAT2A](#) [W2A25A101KAT2A](#) [W2A25C103MAT2A](#) [W2A4YA100KAT2A](#) [W2A4YA101JAT2A](#)  
[W2A4YA101KAT2A](#) [W2A4YA120KAT2A](#) [W2A4YA150KAT2A](#) [W2A4YA180KAT2A](#) [W2A4YA201KAT2F](#)  
[W2A4YA220KAT2A](#) [W2A4YA221KAT2A](#) [W2A4YA270KAT2A](#) [W2A4YA330KAT2A](#) [W2A4YA330KAT4A](#)  
[W2A4YA680KAT2A](#) [W2A4YC102MAT2A](#) [W2A4YC103MAT2F](#) [W2A4YC103M4T2A](#) [W2A4YC152KAT2A](#)  
[W2A4YC183KAT2F](#) [W2A4YC222MAT2F](#) [W2A4YC331KAT2A](#) [W2A4YC332KAT2A](#) [W2A4YC471KAT2A](#)  
[W2A4YC471KAT2F](#) [W2A4YC471MAT2A](#) [W2A4YC472MAT2A](#) [W2A4YC681KAT2A](#) [W2A4YC682KAT2A](#)  
[W2A4YD104MAT2A](#) [W2A4ZA270KAT2A](#) [W2A4ZA470KAT2A](#) [W2A4ZC183KAT2F](#) [W2A4ZC332KAT2A](#)  
[W2A4ZC471KAT2A](#) [W2A4ZC682KAT2A](#) [W2A41A100KAT2A](#) [W2A41A120KAT2A](#) [W2A41A150KAT2A](#)