

# How to Order

## Part Number Explanation



### Commercial Surface Mount Chips

#### EXAMPLE: 08055A101JAT2A

0805	5	A	101	J*	A	T	2	A**
<b>Size</b> (L" x W")	<b>Voltage</b>	<b>Dielectric</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Failure Rate</b>	<b>Terminations</b>	<b>Packaging Available</b>	<b>Special Code</b>
0101*	4 = 4V	A = NP0(C0G)	2 Sig. Fig + No. of Zeros	B = ±.10 pF	A = N/A	T = Plated Ni and Sn	2 = 7" Reel	A = Std
0201	6 = 6.3V	C = X7R	Examples:	C = ±.25 pF	4 = Automotive	7 = Gold Plated	4 = 13" Reel	K = 30K (0603/1206
0402	Z = 10V	D = X5R	100 = 10 pF	D = ±.50 pF		U = Conductive	K = 30K per 13" Reel	<0.030" / 0.76mm)
0603	Y = 16V	F = X8R	101 = 100 pF	F = ±1%		Expoxy for Hybrid	(0603 only)	H = 18K (0603/0805/1206
0805	D = 35V	G = Y5V	102 = 1000 pF	G = ±2%		Applications	7 = Bulk Cass.	<0.037" / 0.94mm)
1206	5 = 50V	U = U Series	223 = 22000 pF	J = ±5%		Z = FLEXITERM®	9 = Bulk	J = 15K (0805/1206
1210	1 = 100V	W = X6S	224 = 220000 pF	K = ±10%		X = FLEXITERM®	U = 4mm TR	<0.050" / 1.27mm)
1812	2 = 200V	Z = X7S	105 = 1µF	M = ±20%		with 5% min lead (X7R & X8R only)	(01005)	1 = 12K (0805/1206
1825	7 = 500V		106 = 10µF	Z = +80%, -20%				<0.055" / 1.4mm)
2220			107 = 100µF	P = +100%, -0%				**Non std options upon approval from the factory
2225			For values below 10 pF, use "R" in place of Decimal point, e.g., 9.1 pF = 9R1.					
	<b>Contact Factory for Special Voltages</b>					<b>Contact Factory For 1 = Pd/Ag Term</b>	<b>Contact Factory For Multiples</b>	
*EIA 01005	F = 63V	9 = 300V						
	* = 75V	X = 350V						
	E = 150V	8 = 400V						
	V = 250V							

\* B, C & D tolerance for ≤10 pF values.

Standard Tape and Reel material (Paper/Embossed) depends upon chip size and thickness.

See individual part tables for tape material type for each capacitance value.

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers. For Tin/Lead Terminations, please refer to LD Series

### High Voltage MLC Chips

#### EXAMPLE: 1808AA271KA11A

1808	A	A	271	K	A	T	1	A
<b>AVX Style</b>	<b>Voltage</b>	<b>Temperature Coefficient</b>	<b>Capacitance Code</b>	<b>Capacitance Tolerance</b>	<b>Failure Rate</b>	<b>Termination</b>	<b>Packaging/ Marking</b>	<b>Special Code</b>
0805	C = 600V/630V	A = C0G	(2 significant digits + no. of zeros)	C0G: J = ±5%	A=Not Applicable	1 = Pd/Ag	1 = 7" Reel	A = Standard
1206	A = 1000V	C = X7R	Examples:	K = ±10%		T = Plated Ni and Sn	3 = 13" Reel	
1210	S = 1500V		10 pF = 100	M = ±20%		B = 5% Min Pb	9 = Bulk	
1808	G = 2000V		100 pF = 101	X7R: K = ±10%		Z = FLEXITERM®		
1812	W = 2500V		1,000 pF = 102	M = ±20%		X = FLEXITERM®		
1825	H = 3000V		22,000 pF = 223	Z = +80%, -20%		with 5% min lead (X7R only)		
2220	J = 4000V		220,000 pF = 224					
2225	K = 5000V		1 µF = 105					
3640								

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers. For Tin/Lead Terminations, please refer to LD Series

**Not RoHS Compliant**



For RoHS compliant products, please select correct termination style.

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## Part Number Explanation



### Capacitor Array

#### EXAMPLE: W2A43C103MAT2A

W	2	A	4	3	C	103	M	A	T	2A
<b>Style</b> W = RoHS L = SnPb	<b>Case Size</b> 1 = 0405 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 D = X5R	<b>Capacitance Code (In pF)</b> 2 Sig Digits + Number of Zeros	<b>Capacitance Tolerance</b> J = ±5% K = ±10% M = ±20%	<b>Failure Rate</b> A = Commercial 4 = Automotive	<b>Termination Code</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)

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

### Low Inductance Capacitors (LICC)

#### EXAMPLE: 0612ZD105MAT2A

0612	Z	D	105	M	A	T	2	A
<b>Size</b> 0306 0508 0612 LD16 LD17 LD18	<b>Voltage</b> 6 = 6.3V Z = 10V Y = 16V 3 = 25V 5 = 50V	<b>Dielectric</b> C = X7R D = X5R	<b>Capacitance Code (In pF)</b> 2 Sig. Digits + Number of Zeros	<b>Capacitance Tolerance</b> K = ±10% M = ±20%	<b>Failure Rate</b> A = N/A	<b>Terminations</b> T = Plated Ni and Sn B = 5% min lead	<b>Packaging Available</b> 2 = 7" Reel 4 = 13" Reel	<b>Thickness</b> See Page 71 for Codes

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

### Interdigitated Capacitors (IDC)

#### EXAMPLE: W3L16D225MAT3A

W	3	L	1	6	D	225	M	A	T	3	A
<b>Style</b> W = RoHS L = SnPb	<b>Case Size</b> 2 = 0508 3 = 0612	<b>Low Inductance</b> ESL = 50pH ESL = 60pH	<b>Number of Terminals</b> 1 = 8 Terminals	<b>Voltage</b> 4 = 4V 6 = 6.3V Z = 10V Y = 16V	<b>Dielectric</b> C = X7R D = X5R	<b>Capacitance Code (In pF)</b> 2 Sig. Digits + Number of Zeros	<b>Capacitance Tolerance</b> M = ±20%	<b>Failure Rate</b> A = N/A	<b>Termination</b> T = Plated Ni and Sn B = 5% min Lead	<b>Packaging Available</b> 1=7" Reel 3=13" Reel	<b>Thickness</b> Max. Thickness mm (in.) A=0.95 (0.037) S=0.55 (0.022)

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

### Low Inductance Decoupling Capacitor Arrays (LICA)

#### EXAMPLE: LICA3T183M3FC4AA

LICA	3	T	102	M	3	F	C	4	A	A
<b>Style &amp; Size</b> 5V = 9 10V = Z 25V = 3	<b>Voltage</b> D = X5R T = T55T S = High K T55T	<b>Dielectric</b> 102 = 1000 pF 103 = 10 nF 104 = 100 nF	<b>Cap/Section (EIA Code)</b>	<b>Capacitance Tolerance</b> M = ±20% P = GMV	<b>Height Code</b> 6 = 0.500mm 3 = 0.650mm 1 = 0.875mm 5 = 1.100mm 7 = 1.600mm	<b>Termination</b> F = C4 Solder Balls- 97Pb/3Sn H = C4 Solder Balls-Low ESR P = Cr-Cu-Au N = Cr-Ni-Au X = None	<b>Reel Packaging</b> M = 7" Reel R = 13" Reel 6 = 2"x2" Waffle Pack 8 = 2"x2" Black Waffle Pack 7 = 2"x2" Waffle Pack w/ termination facing up A = 2"x2" Black Waffle Pack w/ termination facing up C = 4"x4" Waffle Pack w/ clear lid	<b># of Caps/Part</b> 1 = one 2 = two 4 = four	<b>Inspection Code</b> A = Standard B = Established Reliability Testing	<b>Code Face</b> A = Bar B = No Bar C = Dot, S55S Dielectrics D = Triangle

**Not RoHS Compliant**



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NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

