

How to Order



Part Number Explanation

Commercial Surface Mount Chips

EXAMPLE: 08055A101JAT2A

0805	5	A	101	J*	A	T	2	A**
Size (L" x W")	Voltage	Dielectric	Capacitance	Tolerance	Failure Rate	Terminations	Packaging	Special Code
0101*	4 = 4V	A = NP0(C0G)	2 Sig. Fig + No. of Zeros	B = ±10 pF	A = N/A	T = Plated Ni and Sn	<u>Available</u>	A = Std
0201	6 = 6.3V	C = X7R	Examples:	C = ±25 pF	4 = Automotive	7 = Gold Plated	2 = 7" Reel	K = 30K (0603 2mm pitch)
0402	Z = 10V	D = X5R	100 = 10 pF	D = ±50 pF		U = Conductive	4 = 13" Reel	22K (0805/1206
0603	Y = 16V	F = X8R	101 = 100 pF	F = ±1% (≥ 10 pF)		Expoxy for	K = 30K per	<0.030" / 0.76mm)
0805	D = 35V	G = Y5V	102 = 1000 pF	G = ±2% (≥ 10 pF)		Hybrid	13" Reel	H = 18K (0603/0805/1206
1206	Z = 10V	U = U Series	223 = 22000 pF	J = ±5%		Applications	(0603 only)	<0.037" / 0.94mm)
1210	1 = 100V	W = X6S	224 = 220000 pF	K = ±10%		Z = FLEXITERM®	7 = Bulk Cass.	J = 15K (0805/1206
1812	2 = 200V	Z = X7S	105 = 1µF	M = ±20%		X = FLEXITERM®	9 = Bulk	<0.050" / 1.27mm)
1825	7 = 500V		106 = 10µF	Z = +80%, -20%		with 5% min lead (X7R & X8R only)	U = 4mm TR (01005)	1 = 12K (0805/1206
2220			107 = 100µF	P = +100%, -0%				<0.055" / 1.4mm)
2225			For values below 10 pF, use "R" in place of Decimal point, e.g., 9.1 pF = 9R1.			Contact Factory For 1 = Pd/Ag Term	Contact Factory For Multiples	**Non std options upon approval from the factory

*EIA 01005

Contact Factory for Special Voltages

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
AVX Style	Voltage	Temperature Coefficient	Capacitance Code	Capacitance Tolerance	Failure Rate	Termination	Packaging/ Marking	Special Code
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.

How to Order



Part Number Explanation

Capacitor Array

EXAMPLE: W2A43C103MAT2A

W	2	A	4	3	C	103	M	A	T	2A
Style W = RoHS L = SnPb	Case Size 1 = 0405 2 = 0508 3 = 0612	Array	Number of Caps	Voltage Z = 10V Y = 16V 3 = 25V 5 = 50V 1 = 100V	Dielectric A = NP0 C = X7R D = X5R	Capacitance Code (In pF) 2 Sig Digits + Number of Zeros	Capacitance Tolerance J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	Failure Rate A = Commercial 4 = Automotive	Termination Code T = Plated Ni and Sn Z = FLEXITERM® B = 5% min lead X = FLEXITERM® with 5% min lead	Packaging & Quantity Code 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
Size 0306 0508 0612 LD16 LD17 LD18	Voltage 6 = 6.3V Z = 10V Y = 16V 3 = 25V 5 = 50V	Dielectric C = X7R D = X5R	Capacitance Code (In pF) 2 Sig. Digits + Number of Zeros	Capacitance Tolerance K = $\pm 10\%$ M = $\pm 20\%$	Failure Rate A = N/A	Terminations T = Plated Ni and Sn B = 5% min lead	Packaging Available 2 = 7" Reel 4 = 13" Reel	Thickness 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
Style W = RoHS L = SnPb	Case Size 2 = 0508 3 = 0612	Low Inductance ESL = 50pH ESL = 60pH	Number of Terminals 1 = 8 Terminals	Voltage 4 = 4V 6 = 6.3V Z = 10V Y = 16V	Dielectric C = X7R D = X5R	Capacitance Code (In pF) 2 Sig. Digits + Number of Zeros	Capacitance Tolerance M = $\pm 20\%$	Failure Rate A = N/A	Termination T = Plated Ni and Sn B = 5% min Lead	Packaging Available 1 = 7" Reel 3 = 13" Reel	Thickness 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
Style & Size 5V = 9 10V = Z 25V = 3	Voltage D = X5R T = T55T S = High K T55T	Dielectric 102 = 1000 pF 103 = 10 nF 104 = 100 nF	Cap/Section (EIA Code)	Capacitance Tolerance M = $\pm 20\%$ P = GMV	Height Code 6 = 0.500mm 3 = 0.650mm 1 = 0.875mm 5 = 1.100mm 7 = 1.600mm	Termination F = C4 Solder Balls- 97Pb/3Sn H = C4 Solder Balls-Low ESR P = Cr-Cu-Au N = Cr-Ni-Au X = None	Reel Packaging 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	# of Caps/Part 1 = one 2 = two 4 = four	Inspection Code A = Standard B = Established Reliability Testing	Code Face A = Bar B = No Bar C = Dot, S55S Dielectrics D = Triangle

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS
COMPLIANT

For RoHS compliant products,
please select correct termination style.

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

