

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
0201 0402 0603 0805 1206 1210 1812 1825 2220 2225	4 = 4V 6 = 6.3V Z = 10V Y = 16V 3 = 25V D = 35V 5 = 50V 1 = 100V 2 = 200V	A = NP0(C0G) C = X7R D = X5R G = Y5V U = U Series W = X6S Z = X7S	2 Sig. Fig + No. of Zeros Examples: 100 = 10 pF 101 = 100 pF 102 = 1000 pF 223 = 22000 pF 224 = 220000 pF 105 = 1µF 106 = 10µF 107 = 100µF For values below 10 pF, use "R" in place of Decimal point, e.g., 9.1 pF = 9R1.	B = ±.10 pF C = ±.25 pF D = ±.50 pF F = ±1% (≥ 25 pF) G = ±2% (≥ 13 pF) J = ±5% K = ±10% M = ±20% Z = +80%, -20% P = +100%, -0%	A = N/A	T = Plated Ni and Sn 7 = Gold Plated	<u>Available</u> 2 = 7" Reel 4 = 13" Reel 7 = Bulk Cass. 9 = Bulk	A = Std.
	Contact Factory for Special Voltages F = 63V 9 = 300V * = 75V X = 350V E = 150V 8 = 400V V = 250V					Contact Factory For 1 = Pd/Ag Term	Contact Factory For Multiples	
						* 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.		

High Voltage Surface Mount Chips

EXAMPLE: 1808AA271KA11A

1808	A	A	271	K	A	1	1A
AVX Style	Voltage	Temperature Coefficient	Capacitance Code	Capacitance Tolerance	Failure Rate	Termination	Packaging/Marking
1206 1210 1808 1812 1825 2220 2225 3640	7 = 500V C = 600V A = 1000V S = 1500V G = 2000V W = 2500V H = 3000V J = 4000V K = 5000V	A = C0G C = X7R	(2 significant digits + no. of zeros) Examples: 10 pF = 100 100 pF = 101 1,000 pF = 102 22,000 pF = 223 220,000 pF = 224 1 µF = 105	C0G: J = ±5% K = ±10% M = ±20% X7R: K = ±10% M = ±20% Z = +80%, -20%	A=Not Applicable	1 = Pd/Ag T = Plated Ni and Sn	1A = 7" Reel Unmarked 3A = 13" Reel Unmarked 9A = Bulk/Unmarked

Ultra Thin Surface Mount Chips

EXAMPLE: UT023C223MAT2A

UT	02	3	C	223	M	A	T	2	A
Style	Case Size	Voltage	Dielectric	Capacitance Code (In pF)	Capacitance Tolerance	Std.	Term	Packaging Code	Terminations Code (max.)
Ultrathin	01 = 0603 02 = 0805 03 = 1206	Y = 16Vdc 3 = 25Vdc 5 = 50Vdc	A = C0G C = X7R	2 Sig Digits + Number of Zeros			T = Plated Ni and Sn	2 = 7" reel	A = 0.50mm (0.020) B = 0.40mm (0.016) C = 0.35mm (0.014)

Please handle these products with due care as they are inherently more fragile than standard MLC capacitors because of their physical dimensions.

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Part Number Explanation

Capacitor Array

EXAMPLE: W2A43C103MAT2A

W	2	A	4	3	C	103	M	A	T	2A
Style	Case Size	Array	Number of Caps	Voltage	Dielectric	Capacitance Code (In pF)	Capacitance Tolerance	Failure Rate	Termination Code	Packaging & Quantity Code
	1 = 0405 2 = 0508 3 = 0612			6 = 6.3V Z = 10V Y = 16V 3 = 25V 5 = 50V 1 = 100V	A = NP0 C = X7R D = X5R	2 Sig Digits + Number of Zeros	J = ±5% K = ±10% M = ±20%		T = Plated Ni and Sn	2A = 7" Reel (4000) 4A = 13" Reel (10000) 2F = 7" Reel (1000)

Low Inductance Capacitors (LICC)

EXAMPLE: 0612ZD105MAT2A

0612	Z	D	105	M	A	T	2	A
Size	Voltage	Dielectric	Capacitance Code (In pF)	Capacitance Tolerance	Failure Rate	Terminations	Packaging Available	Thickness
0306 0508 0612	6 = 6.3V Z = 10V Y = 16V 3 = 25V	C = X7R D = X5R	2 Sig. Digits + Number of Zeros	K = ±10% M = ±20%	A = N/A	T = Plated Ni and Sn	2 = 7" Reel 4 = 13" Reel	See Page 34 for Codes

Interdigitated Capacitors (IDC)

EXAMPLE: W3L16D225MAT3A

W	3	L	1	6	D	225	M	A	T	3	A
Style	Case Size	Low Inductance	Number of Caps	Voltage	Dielectric	Capacitance Code (In pF)	Capacitance Tolerance	Failure Rate	Termination	Packaging Available	Thickness
	2 = 0508 3 = 0612	ESL = 95pH ESL = 120pH		4 = 4V 6 = 6.3V Z = 10V Y = 16V	C = X7R D = X5R	2 Sig. Digits + Number of Zeros	K = ±10% M = ±20%	A = N/A	T = Plated Ni and Sn	1=7" Reel 3=13" Reel	<u>Max. Thickness</u> mm (in.) A=0.95 (0.037) S=0.55 (0.022)

Decoupling Capacitor Arrays (LICA)

EXAMPLE: LICA3T183M3FC4AA

LICA	3	T	183	M	3	F	C	4	A	A
Style & Size	Voltage	Dielectric	Cap/Section (EIA Code)	Capacitance Tolerance	Height Code	Termination	Reel Packaging	# of Caps/Part	Inspection Code	Code Face
	5V = 9 25V = 3 50V = 5	D = X5R T = T55T S = High K T55T		M = ±20% P = GMV	6 = 0.500mm 3 = 0.650mm 1 = 0.875mm 5 = 1.100mm 7 = 1.600mm	F = C4 Solder Balls- 97Pb/3Sn P = Cr-Cu-Au N = Cr-Ni-Au X = None	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	1 = one 2 = two 4 = four	A = Standard B = Established Reliability Testing	A = Bar B = No Bar C = Dot, S55S Dielectrics