

# 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</b>	<b>Special Code</b>
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.
	<b>Contact Factory for Special Voltages</b> F = 63V    9 = 300V * = 75V    X = 350V E = 150V    8 = 400V V = 250V					<b>Contact Factory For 1 = Pd/Ag Term</b>	<b>Contact Factory For Multiples</b>	
						* 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
<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>
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
<b>Style</b>	<b>Case Size</b>	<b>Voltage</b>	<b>Dielectric</b>	<b>Capacitance Code (In pF)</b>	<b>Capacitance Tolerance</b>	<b>Std.</b>	<b>Term</b>	<b>Packaging Code</b>	<b>Terminations Code (max.)</b>
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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