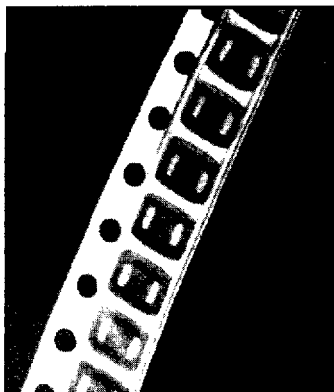


Chips Multilayer Ceramic Capacitors

MALLORY



- Surface Mount
- COG, X7R, Z5U
Temperature Coefficients
- Nickel Barrier/Solder
Terminations
- Tape and Reel — Standard
- Z5U meets Y5V Characteristics
- 50 Volt Units Can Be Used
For 63 Volt Applications

GENERAL SPECIFICATIONS

Voltage Range:

COG: 50, 100 and 200 VDC
X7R: 50, 100 and 200 VDC
Z5U: 50 and 100 VDC

Capacitance Range:

COG: 1 pF to .012 μ F
X7R: 220 pF to .33 μ F
Z5U: 6800 pF to .47 μ F

Standard Sizes: (Three)

0805, 1206, 1210

Tape and Reel:

7" reel per EIA RS 481-1

Parts with ^ (caret) following part number are 2,500 pcs. per reel.

All others are 4,000 pcs per reel.
13" reels are available by special request.

Note: Other chip sizes are available upon special request.
Contact NACC for availability and prices.

Performance Characteristics

Parameter	COG (NPO)	X7R	Z5U
Temperature Characteristics:			
Range, °C:	-55°C to +125°C	-55°C to +125°C	+10°C to +85°C
Capacitance change without DC voltage:	0 $\pm$ 30 PPM/°C*	$\pm$ 15%	+22%, -56%
Aging Rate: %ΔC / Decade Hour, Maximum:			
	0%	2.5%	5.0%
Dissipation Factor:			
Test Conditions @ 25°C:	> 100 pF w/1.0 vrms @ 1 KHz	w/ 1.0 vrms @ 1 KHz	w/ 0.5 vrms @ 1 KHz
	$\leq$ 100 pF w/1.0 vrms @ 1 MHz		
Limits:	0.10 % Max	2.5 % Max	4.0 % Max
Insulation Resistance (IR):			
After 2 min. electrification @ 25°C with rated voltage applied:	1000 megohms x μ F or 100 gigaohms	1000 megohms x μ F or 100 gigaohms	1000 megohms x μ F or 10 gigaohms
Moisture Resistance: MIL-STD-202, Method 106 (20 cycles with 50 Volts applied)			
Post test limits @ 25°C, whichever is smaller:	100 megohms x μ F or 10 gigaohms	100 megohms x μ F or 10 gigaohms	100 megohms x μ F or 1 gigaohm
Immersion Cycling: MIL-STD-202, Method 104, Condition B (2 cycles @ 15 minutes each. Each cycle consists of immersion in hot bath @ 65°C followed by immersion in cold salt water bath.)			
Post test limits @ 25°C :			
Insulation Resistance, whichever is smaller:	100 megohms x μ F or 10 gigaohms	100 megohms x μ F or 10 gigaohms	100 megohms x μ F or 1 gigaohm
Life Test: - 1000 Hrs.			
Test Potential and Temperature:	200% V @ 125°C	200% V @ 125°C	150% V @ 85°C
Post test limits @ 25°C:			
Capacitance Change, whichever is greater:	< 2% or 0.5pF	$\pm$ 15% of initial value**	$\pm$ 30% of initial value**
Dissipation Factor:	0.25% Max	2.5% Max	5.0% Max
Insulation Resistance, whichever is smaller:	100 megohms x μ F or 10 gigaohms	100 megohms x μ F or 10 gigaohms	100 megohms x μ F or 1 gigaohm
Dielectric Strength 2.5 times rated voltage for 5 seconds with current limited to 50 mA			

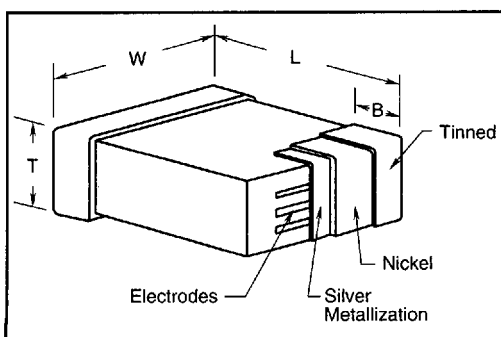
* 60 PPM/°C below 10pF nominal
+53 PPM -30 PPM/°C from +25°C to -55°C comparable to MIL-C-20

** X7R and Z5U dielectrics exhibit aging characteristics; therefore, it is highly recommended that capacitors be de-aged for 2 hours @ 150°C and stabilized at room temperature for 48 hours before capacitor measurements are made.

Z5U meets all Y5V requirements and can be used in its place

Y5V - Δ C $\leq$ +22/-82% over -30°C to +85°C

Z5U - Δ C $\leq$ +22/-56% over +10°C to +85°C



Dimensions - Millimeters (Inches)

Size Code	L Length	W Width	T Thickness Maximum	B Bandwidth
0805	2.0(.079) $\pm$ 0.2(.008)	1.25(.049) $\pm$ 0.2(.008)	1.3(.051)	0.5(.020) $\pm$ 0.25(.010)
1206	3.2(.126) $\pm$ 0.2(.008)	1.6(.063) $\pm$ 0.2(.008)	1.5(.059)	0.5(.020) $\pm$ 0.25(.010)
1210	3.2(.126) $\pm$ 0.2(.008)	2.5(.098) $\pm$ 0.2(.008)	1.7(.067)	0.5(.020) $\pm$ 0.25(.010)

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Chips Multilayer Ceramic Capacitors

MALLORY

COG (NPO) Temperature Coefficient

0805 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
1.0pF	C0805C109*5GAC	C0805C109*1GAC	C0805C109*2GAC^
1.2pF	C0805C129*5GAC	C0805C129*1GAC	C0805C129*2GAC^
1.5pF	C0805C159*5GAC	C0805C159*1GAC	C0805C159*2GAC^
1.8pF	C0805C189*5GAC	C0805C189*1GAC	C0805C189*2GAC^
2.2pF	C0805C229*5GAC	C0805C229*1GAC	C0805C229*2GAC^
2.7pF	C0805C279*5GAC	C0805C279*1GAC	C0805C279*2GAC^
3.3pF	C0805C339*5GAC	C0805C339*1GAC	C0805C339*2GAC^
3.9pF	C0805C399*5GAC	C0805C399*1GAC	C0805C399*2GAC^
4.7pF	C0805C479*5GAC	C0805C479*1GAC	C0805C479*2GAC^
5.6pF	C0805C569*5GAC	C0805C569*1GAC	C0805C569*2GAC^
6.8pF	C0805C689*5GAC	C0805C689*1GAC	C0805C689*2GAC^
8.2pF	C0805C829*5GAC	C0805C829*1GAC	C0805C829*2GAC^
10pF	C0805C100*5GAC	C0805C100*1GAC	C0805C100*2GAC^
12pF	C0805C120*5GAC	C0805C120*1GAC	C0805C120*2GAC^
15pF	C0805C150*5GAC	C0805C150*1GAC	C0805C150*2GAC^
18pF	C0805C180*5GAC	C0805C180*1GAC	C0805C180*2GAC^
22pF	C0805C220*5GAC	C0805C220*1GAC	C0805C220*2GAC^
27pF	C0805C270*5GAC	C0805C270*1GAC	C0805C270*2GAC^
33pF	C0805C330*5GAC	C0805C330*1GAC	C0805C330*2GAC^
39pF	C0805C390*5GAC	C0805C390*1GAC	C0805C390*2GAC^
47pF	C0805C470*5GAC	C0805C470*1GAC	C0805C470*2GAC^
56pF	C0805C560*5GAC	C0805C560*1GAC	C0805C560*2GAC^
68pF	C0805C680*5GAC	C0805C680*1GAC	C0805C680*2GAC^
82pF	C0805C820*5GAC	C0805C820*1GAC	C0805C820*2GAC^
100pF	C0805C101*5GAC	C0805C101*1GAC	C0805C101*2GAC^
120pF	C0805C121*5GAC	C0805C121*1GAC	C0805C121*2GAC^
150pF	C0805C151*5GAC	C0805C151*1GAC	C0805C151*2GAC^
180pF	C0805C181*5GAC	C0805C181*1GAC	C0805C181*2GAC^
220pF	C0805C221*5GAC	C0805C221*1GAC	C0805C221*2GAC^
270pF	C0805C271*5GAC	C0805C271*1GAC	C0805C271*2GAC^
330pF	C0805C331*5GAC	C0805C331*1GAC	C0805C331*2GAC^
390pF	C0805C391*5GAC	C0805C391*1GAC	C0805C391*2GAC^
470pF	C0805C471*5GAC	C0805C471*1GAC	C0805C471*2GAC^
560pF	C0805C561*5GAC	C0805C561*1GAC	C0805C561*2GAC^
680pF	C0805C681*5GAC	C0805C681*1GAC	C0805C681*2GAC^
820pF	C0805C821*5GAC	C0805C821*1GAC	C0805C821*2GAC^
1000pF	C0805C102*5GAC	C0805C102*1GAC	C0805C102*2GAC^
1200pF	C0805C122*5GAC		
1500pF	C0805C152*5GAC		
1800pF	C0805C182*5GAC		

1206 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
1.0pF	C1206C109*5GAC	C1206C109*1GAC	C1206C109*2GAC^
1.2pF	C1206C129*5GAC	C1206C129*1GAC	C1206C129*2GAC^
1.5pF	C1206C159*5GAC	C1206C159*1GAC	C1206C159*2GAC^
1.8pF	C1206C189*5GAC	C1206C189*1GAC	C1206C189*2GAC^
2.2pF	C1206C229*5GAC	C1206C229*1GAC	C1206C229*2GAC^
2.7pF	C1206C279*5GAC	C1206C279*1GAC	C1206C279*2GAC^
3.3pF	C1206C339*5GAC	C1206C339*1GAC	C1206C339*2GAC^
3.9pF	C1206C399*5GAC	C1206C399*1GAC	C1206C399*2GAC^
4.7pF	C1206C479*5GAC	C1206C479*1GAC	C1206C479*2GAC^
5.6pF	C1206C569*5GAC	C1206C569*1GAC	C1206C569*2GAC^
6.8pF	C1206C689*5GAC	C1206C689*1GAC	C1206C689*2GAC^
8.2pF	C1206C829*5GAC	C1206C829*1GAC	C1206C829*2GAC^
10pF	C1206C100*5GAC	C1206C100*1GAC	C1206C100*2GAC^
12pF	C1206C120*5GAC	C1206C120*1GAC	C1206C120*2GAC^
15pF	C1206C150*5GAC	C1206C150*1GAC	C1206C150*2GAC^
18pF	C1206C180*5GAC	C1206C180*1GAC	C1206C180*2GAC^
22pF	C1206C220*5GAC	C1206C220*1GAC	C1206C220*2GAC^
27pF	C1206C270*5GAC	C1206C270*1GAC	C1206C270*2GAC^
33pF	C1206C330*5GAC	C1206C330*1GAC	C1206C330*2GAC^
39pF	C1206C390*5GAC	C1206C390*1GAC	C1206C390*2GAC^
47pF	C1206C470*5GAC	C1206C470*1GAC	C1206C470*2GAC^
56pF	C1206C560*5GAC	C1206C560*1GAC	C1206C560*2GAC^
68pF	C1206C680*5GAC	C1206C680*1GAC	C1206C680*2GAC^
82pF	C1206C820*5GAC	C1206C820*1GAC	C1206C820*2GAC^
100pF	C1206C101*5GAC	C1206C101*1GAC	C1206C101*2GAC^
120pF	C1206C121*5GAC	C1206C121*1GAC	C1206C121*2GAC^
150pF	C1206C151*5GAC	C1206C151*1GAC	C1206C151*2GAC^

1206 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
180pF	C1206C181*5GAC	C1206C181*1GAC	C1206C181*2GAC^
220pF	C1206C221*5GAC	C1206C221*1GAC	C1206C221*2GAC^
270pF	C1206C271*5GAC	C1206C271*1GAC	C1206C271*2GAC^
330pF	C1206C331*5GAC	C1206C331*1GAC	C1206C331*2GAC^
390pF	C1206C391*5GAC	C1206C391*1GAC	C1206C391*2GAC^
470pF	C1206C471*5GAC	C1206C471*1GAC	C1206C471*2GAC^
560pF	C1206C561*5GAC	C1206C561*1GAC	C1206C561*2GAC^
680pF	C1206C681*5GAC	C1206C681*1GAC	C1206C681*2GAC^
820pF	C1206C821*5GAC	C1206C821*1GAC	C1206C821*2GAC^
1000pF	C1206C102*5GAC	C1206C102*1GAC	C1206C102*2GAC^
1200pF	C1206C122*5GAC	C1206C122*1GAC	C1206C122*2GAC^
1500pF	C1206C152*5GAC	C1206C152*1GAC	C1206C152*2GAC^
1800pF	C1206C182*5GAC	C1206C182*1GAC	C1206C182*2GAC^
2200pF	C1206C222*5GAC	C1206C222*1GAC	
2700pF	C1206C272*5GAC	C1206C272*1GAC	
3300pF	C1206C332*5GAC	C1206C332*1GAC	
3900pF	C1206C392*5GAC	C1206C392*1GAC	
4700pF	C1206C472*5GAC		
5600pF	C1206C562*5GAC		

1210 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
10pF	C1210C100*5GAC	C1210C100*1GAC	C1210C100*2GAC^
12pF	C1210C120*5GAC	C1210C120*1GAC	C1210C120*2GAC^
15pF	C1210C150*5GAC	C1210C150*1GAC	C1210C150*2GAC^
18pF	C1210C180*5GAC	C1210C180*1GAC	C1210C180*2GAC^
22pF	C1210C220*5GAC	C1210C220*1GAC	C1210C220*2GAC^
27pF	C1210C270*5GAC	C1210C270*1GAC	C1210C270*2GAC^
33pF	C1210C330*5GAC	C1210C330*1GAC	C1210C330*2GAC^
39pF	C1210C390*5GAC	C1210C390*1GAC	C1210C390*2GAC^
47pF	C1210C470*5GAC	C1210C470*1GAC	C1210C470*2GAC^
56pF	C1210C560*5GAC	C1210C560*1GAC	C1210C560*2GAC^
68pF	C1210C680*5GAC	C1210C680*1GAC	C1210C680*2GAC^
82pF	C1210C820*5GAC	C1210C820*1GAC	C1210C820*2GAC^
100pF	C1210C101*5GAC	C1210C101*1GAC	C1210C101*2GAC^
120pF	C1210C121*5GAC	C1210C121*1GAC	C1210C121*2GAC^
150pF	C1210C151*5GAC	C1210C151*1GAC	C1210C151*2GAC^
180pF	C1210C181*5GAC	C1210C181*1GAC	C1210C181*2GAC^
220pF	C1210C221*5GAC	C1210C221*1GAC	C1210C221*2GAC^
270pF	C1210C271*5GAC	C1210C271*1GAC	C1210C271*2GAC^
330pF	C1210C331*5GAC	C1210C331*1GAC	C1210C331*2GAC^
390pF	C1210C391*5GAC	C1210C391*1GAC	C1210C391*2GAC^
470pF	C1210C471*5GAC	C1210C471*1GAC	C1210C471*2GAC^
560pF	C1210C561*5GAC	C1210C561*1GAC	C1210C561*2GAC^
680pF	C1210C681*5GAC	C1210C681*1GAC	C1210C681*2GAC^
820pF	C1210C821*5GAC	C1210C821*1GAC	C1210C821*2GAC^
1000pF	C1210C102*5GAC	C1210C102*1GAC	C1210C102*2GAC^
1200pF	C1210C122*5GAC	C1210C122*1GAC	C1210C122*2GAC^
1500pF	C1210C152*5GAC	C1210C152*1GAC	C1210C152*2GAC^
1800pF	C1210C182*5GAC	C1210C182*1GAC	C1210C182*2GAC^
2200pF	C1210C222*5GAC	C1210C222*1GAC	C1210C222*2GAC^
2700pF	C1210C272*5GAC	C1210C272*1GAC	C1210C272*2GAC^
3300pF	C1210C332*5GAC	C1210C332*1GAC	C1210C332*2GAC^
3900pF	C1210C392*5GAC	C1210C392*1GAC	
4700pF	C1210C472*5GAC	C1210C472*1GAC	
5600pF	C1210C562*5GAC	C1210C562*1GAC	
6800pF	C1210C682*5GAC	C1210C682*1GAC	
8200pF	C1210C822*5GAC		
10000pF	C1210C103*5GAC		
12000pF	C1210C123*5GAC		

* Insert proper letter code for desired tolerance:

±0.25pF (C) is standard on values less than 10 pF
±5% (J) is standard on values ≥ 10 pF

Other Available Tolerances:

Values less than 27pF:

C = ±0.25pF, D = ±0.5pF

Values greater than 10 pF:

F = ±1%; G = ±2%; H = ±2.5%;

J = ±5%; K = ±10%; M = ±20%

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^ Parts with caret (^) following catalog number are 2,500 pcs per reel

All others are 4,000 pcs per reel

50 volt units can be used for 63 volt applications

Chips Multilayer Ceramic Capacitors

MALLORY

X7R Temperature Coefficient

0805 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
220pF	C0805C221*5RAC	C0805C221*1RAC	C0805C221*2RAC ^
270pF	C0805C271*5RAC	C0805C271*1RAC	C0805C271*2RAC ^
330pF	C0805C331*5RAC	C0805C331*1RAC	C0805C331*2RAC ^
390pF	C0805C391*5RAC	C0805C391*1RAC	C0805C391*2RAC ^
470pF	C0805C471*5RAC	C0805C471*1RAC	C0805C471*2RAC ^
560pF	C0805C561*5RAC	C0805C561*1RAC	C0805C561*2RAC ^
680pF	C0805C681*5RAC	C0805C681*1RAC	C0805C681*2RAC ^
820pF	C0805C821*5RAC	C0805C821*1RAC	C0805C821*2RAC ^
1000pF	C0805C102*5RAC	C0805C102*1RAC	C0805C102*2RAC ^
1200pF	C0805C122*5RAC	C0805C122*1RAC	C0805C122*2RAC ^
1500pF	C0805C152*5RAC	C0805C152*1RAC	C0805C152*2RAC ^
1800pF	C0805C182*5RAC	C0805C182*1RAC	C0805C182*2RAC ^
2200pF	C0805C222*5RAC	C0805C222*1RAC	C0805C222*2RAC ^
2700pF	C0805C272*5RAC	C0805C272*1RAC	C0805C272*2RAC ^
3300pF	C0805C332*5RAC	C0805C332*1RAC	C0805C332*2RAC ^
3900pF	C0805C392*5RAC	C0805C392*1RAC	C0805C392*2RAC ^
4700pF	C0805C472*5RAC	C0805C472*1RAC	C0805C472*2RAC ^
5600pF	C0805C562*5RAC	C0805C562*1RAC	C0805C562*2RAC ^
6800pF	C0805C682*5RAC	C0805C682*1RAC	C0805C682*2RAC ^
8200pF	C0805C822*5RAC	C0805C822*1RAC	
10000pF	C0805C103*5RAC	C0805C103*1RAC	
12000pF	C0805C123*5RAC		
15000pF	C0805C153*5RAC		
18000pF	C0805C183*5RAC		
22000pF	C0805C223*5RAC		
27000pF	C0805C273*5RAC		
33000pF	C0805C333*5RAC		
39000pF	C0805C393*5RAC		
47000pF	C0805C473*5RAC		
56000pF	C0805C563*5RAC ^		
68000pF	C0805C683*5RAC ^		
82000pF	C0805C823*5RAC ^		
.1uF	C0805C104*5RAC ^		

1210 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
2200pF	C1210C222*5RAC	C1210C222*1RAC	C1210C222*2RAC ^
2700pF	C1210C272*5RAC	C1210C272*1RAC	C1210C272*2RAC ^
3300pF	C1210C332*5RAC	C1210C332*1RAC	C1210C332*2RAC ^
3900pF	C1210C392*5RAC	C1210C392*1RAC	C1210C392*2RAC ^
4700pF	C1210C472*5RAC	C1210C472*1RAC	C1210C472*2RAC ^
5600pF	C1210C562*5RAC	C1210C562*1RAC	C1210C562*2RAC ^
6800pF	C1210C682*5RAC	C1210C682*1RAC	C1210C682*2RAC ^
8200pF	C1210C822*5RAC	C1210C822*1RAC	C1210C822*2RAC ^
10000pF	C1210C103*5RAC	C1210C103*1RAC	C1210C103*2RAC ^
12000pF	C1210C123*5RAC	C1210C123*1RAC	C1210C123*2RAC ^
15000pF	C1210C153*5RAC	C1210C153*1RAC	C1210C153*2RAC ^
18000pF	C1210C183*5RAC	C1210C183*1RAC	C1210C183*2RAC ^
22000pF	C1210C223*5RAC	C1210C223*1RAC	C1210C223*2RAC ^
27000pF	C1210C273*5RAC	C1210C273*1RAC	C1210C273*2RAC ^
33000pF	C1210C333*5RAC	C1210C333*1RAC	C1210C333*2RAC ^
39000pF	C1210C393*5RAC	C1210C393*1RAC	C1210C393*2RAC ^
47000pF	C1210C473*5RAC	C1210C473*1RAC	C1210C473*2RAC ^
56000pF	C1210C563*5RAC	C1210C563*1RAC ^	
68000pF	C1210C683*5RAC	C1210C683*1RAC ^	
82000pF	C1210C823*5RAC	C1210C823*1RAC ^	
.1uF	C1210C104*5RAC	C1210C104*1RAC ^	
.12uF	C1210C124*5RAC		
.15uF	C1210C154*5RAC		
.18uF	C1210C184*5RAC		
.22uF	C1210C224*5RAC		
.27uF	C1210C274*5RAC		
.33uF	C1210C334*5RAC		

* Insert proper letter code for desired tolerance:

±10 (K) Tolerance is standard

J = ±5%, K = ±10%, M = ±20%

^ Parts with caret (^) following catalog number are 2,500 pcs per reel.
All others are 4,000pcs per reel

1206 Size Code			
Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
1000pF	C1206C102*5RAC	C1206C102*1RAC	C1206C102*2RAC ^
1200pF	C1206C122*5RAC	C1206C122*1RAC	C1206C122*2RAC ^
1500pF	C1206C152*5RAC	C1206C152*1RAC	C1206C152*2RAC ^
1800pF	C1206C182*5RAC	C1206C182*1RAC	C1206C182*2RAC ^
2200pF	C1206C222*5RAC	C1206C222*1RAC	C1206C222*2RAC ^
2700pF	C1206C272*5RAC	C1206C272*1RAC	C1206C272*2RAC ^
3300pF	C1206C332*5RAC	C1206C332*1RAC	C1206C332*2RAC ^
3900pF	C1206C392*5RAC	C1206C392*1RAC	C1206C392*2RAC ^
4700pF	C1206C472*5RAC	C1206C472*1RAC	C1206C472*2RAC ^
5600pF	C1206C562*5RAC	C1206C562*1RAC	C1206C562*2RAC ^
6800pF	C1206C682*5RAC	C1206C682*1RAC	C1206C682*2RAC ^
8200pF	C1206C822*5RAC	C1206C822*1RAC	C1206C822*2RAC ^
10000pF	C1206C103*5RAC	C1206C103*1RAC	C1206C103*2RAC ^
12000pF	C1206C123*5RAC	C1206C123*1RAC	C1206C123*2RAC ^
15000pF	C1206C153*5RAC	C1206C153*1RAC	C1206C153*2RAC ^
18000pF	C1206C183*5RAC	C1206C183*1RAC	C1206C183*2RAC ^
22000pF	C1206C223*5RAC	C1206C223*1RAC ^	C1206C223*2RAC ^
27000pF	C1206C273*5RAC	C1206C273*1RAC ^	
33000pF	C1206C333*5RAC	C1206C333*1RAC ^	
39000pF	C1206C393*5RAC	C1206C393*1RAC ^	
47000pF	C1206C473*5RAC	C1206C473*1RAC ^	
56000pF	C1206C563*5RAC		
68000pF	C1206C683*5RAC		
82000pF	C1206C823*5RAC		
.1uF	C1206C104*5RAC		
.12uF	C1206C124*5RAC		
.15uF	C1206C154*5RAC		
.18 uF	C1206C184*5RAC		
.22 uF	C1206C224*5RAC		

50 volt units can be used for 63 volt applications

Chips Multilayer Ceramic Capacitors

MALLORY

Z5U Temperature Coefficient

0805 Size Code

Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
6800pF	C0805C682*5UAC	C0805C682*1UAC	
8200pF	C0805C822*5UAC	C0805C822*1UAC	
10000pF	C0805C103*5UAC	C0805C103*1UAC	
12000pF	C0805C123*5UAC		
15000pF	C0805C153*5UAC		
18000pF	C0805C183*5UAC		
22000pF	C0805C223*5UAC		
27000pF	C0805C273*5UAC		
33000pF	C0805C333*5UAC ^		
39000pF	C0805C393*5UAC ^		
47000pF	C0805C473*5UAC ^		
56000pF	C0805C563*5UAC ^		
68000pF	C0805C683*5UAC ^		
82000pF	C0805C823*5UAC ^		
.1uF	C0805C104*5UAC ^		

1206 Size Code

Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
10000pF	C1206C103*5UAC	C1206C103*1UAC	
12000pF	C1206C123*5UAC	C1206C123*1UAC	
15000pF	C1206C153*5UAC	C1206C153*1UAC	
18000pF	C1206C183*5UAC	C1206C183*1UAC	
22000pF	C1206C223*5UAC	C1206C223*1UAC	
27000pF	C1206C273*5UAC	C1206C273*1UAC	
33000pF	C1206C333*5UAC	C1206C333*1UAC	
39000pF	C1206C393*5UAC	C1206C393*1UAC	
47000pF	C1206C473*5UAC		
56000pF	C1206C563*5UAC		
68000pF	C1206C683*5UAC		
82000pF	C1206C823*5UAC		
.1uF	C1206C104*5UAC		
.12uF	C1206C124*5UAC ^		
.15uF	C1206C154*5UAC ^		
.18uF	C1206C184*5UAC ^		
.22uF	C1206C224*5UAC ^		

1210 Size Code

Capacitance	Catalog Number		
	50 VDC	100 VDC	200 VDC
47000pF	C1210C473*5UAC	C1210C473*1UAC	
56000pF	C1210C563*5UAC	C1210C563*1UAC	
68000pF	C1210C683*5UAC	C1210C683*1UAC	
82000pF	C1210C823*5UAC	C1210C823*1UAC	
.1uF	C1210C104*5UAC		
.15uF	C1210C154*5UAC		
.18uF	C1210C184*5UAC		
.22uF	C1210C224*5UAC ^		
.27uF	C1210C274*5UAC ^		
.33uF	C1210C334*5UAC ^		
.39uF	C1210C394*5UAC ^		
.47uF	C1210C474*5UAC ^		

* Insert proper letter code for desired tolerance:
±20 (M) Tolerance is standard

M = ±20%; Z = +80%-0%

^ Parts with caret (^) following catalog number are 2,500 pcs per reel
All others are 4,000 pcs per reel

50 volt units can be used for 63 volt applications

Z5U meets all Y5V requirements and can be used in its place

Y5V - $\Delta C \leq +22/-82\%$ over -30°C to $+85^{\circ}\text{C}$

Z5U - $\Delta C \leq +22/-56\%$ over $+10^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

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