

NOMINAL CAPACITANCE

Capacitance expressed in pF. 2 significant digits plus number of zeros.

(example) 106 = 10 $\diamond$ 10⁶ = 10000000 pF

For Values < 10pF, Letter R denotes decimal point.

(example) 1R5 = 1.5 pF

CAPACITANCE TOLERANCE

Temperature Characteristics	Symbol	Tolerance	Applicable Capacitance Range
COG(NPO) or T.C Series	A	$\pm 0.05\text{pF}$	0.5 ~ 10pF
	B	$\pm 0.1\text{pF}$	
	C	$\pm 0.25\text{pF}$	
	D	$\pm 0.5\text{pF}$	
	F	$\pm 1\text{pF}, \pm 1\%^*$	E-24 Series for over 10pF
	G	$\pm 2\%$	
	J	$\pm 5\%$	
	K	$\pm 10\%$	
A(X5R)	J	$\pm 5\%$	E-12 Series
B(X7R)	K	$\pm 10\%$	
X(X6S)	M	$\pm 20\%$	
F(Y5V)	Z	+80%~-20%	E-6 Series

*For Values $\leq 10\text{pF}$, F = $\pm 1\text{pF}$ Values > 10pF, F = $\pm 1\%$

RATED VOLTAGE

Symbol	Rated Voltage(Vdc)	Symbol	Rated Voltage(Vdc)
R	4.0V	D	200V
Q	6.3V	E	250V
P	10V	G	500V
O	16V	H	630V
A	25V	I	1000V
L	35V	J	2000V
B	50V	K	3000V
C	100V		

Please consult us for special voltage.

THICKNESS OPTION

Size	Code	Thickness (mm)	Specification
0201(0603)	3	0.30	± 0.03
0402(1005)	5	0.50	± 0.05
0603(1608)	8	0.80	± 0.10
0805(2012)	A	0.65	± 0.10
	C	0.85	
	D	1.00	± 0.15
	F	1.25	± 0.10
1206(3216)	Q	1.25	± 0.15
	C	0.85	± 0.15
	D	1.00	
	F	1.25	
1210(3225)	H	1.60	± 0.20
	F	1.25	± 0.20
	H	1.60	
	I	2.00	
	J	2.50	
1808(4520)	V	2.50	± 0.30
	F	1.25	± 0.20
	H	1.60	
	I	2.00	
	J	2.50	
1812(4532)	L	3.20	± 0.20
	F	1.25	
	H	1.60	
	I	2.00	
	J	2.50	
2220(5750)	L	3.20	± 0.20
	F	1.25	
	H	1.60	
	I	2.00	
	J	2.50	± 0.30

PRODUCT & PLATING METHOD

Code	Electrode	Termination	Plating Method
A	Pd	Ag	Sn-100%
N	Ni	Cu	Sn-100%
G	Cu	Cu	Sn-100%
L	Ni	Cu	Sn-100%

PRODUCT CODE

Code	Description of the Code	Code	Description of the Code
A	Array(2 - element)	L	LICC
B	Array(4 - element)	N	Normal
C	High - Q	P	Automotive

RESERVED FOR FUTURE USE

Code	Description of the Code
N	Reserved for future use

PACKAGING CODE

Symbol	Packaging
B	Bulk
P	Bulk Case
C	Cardboard Tape, 7" reel
D	Cardboard Tape, 13" reel(10,000ea)
E	Embossed Tape, 7" reel
F	Embossed Tape, 13" reel
L	Cardboard Tape, 13" reel(15,000ea)
O	Cardboard Tape, 10" reel
S	Embossed Tape, 10" reel

CAPACITANCE TABLE (Super Small Capacitors)

Size	0201(03)						
TC	C0G(C)		X7R(B) / X5R(A)				Y5V(F)
Rated V	25(A)	50(B)	6.3(Q)	10(P)	16(O)	25(A)	6.3(Q)
Capacitance -pF- (part numbering code) and T Dimension -mm- (part numbering code)							
0.5(0R5)							
0.75(R75)							
1.0(010)							
2.0(020)							
3.0(030)							
4.0(040)							
5.0(050)							
6.0(060)		0.3 (3)					
7.0(070)							
8.0(080)							
9.0(090)							
10(100)							
12(120)							
15(150)							
18(180)							
20(200)							
22(220)	0.3 (3)						
27(270)							
33(330)							
39(390)							
47(470)							
56(560)							
68(680)							
82(820)							
100(100)							
150(150)						0.3 (3)	
220(220)							
330(330)							
470(470)							
680(680)							
1000(100)							
1500(150)					0.3 (3)		
2200(220)							
3300(330)							
4700(470)				0.3 (3)			
6800(680)							
10000(100)							
22000(220)			0.3 (3)				
47000(470)							0.3 (3)
100000(100)							

X7R(B)
 X5R(A)
 Y5V(F)