



Capacitance Range Chart

C1608 [EIA CC0603]

Capacitance Range Chart

Temperature Characteristics: COG ($0 \pm 30\text{ppm}/^\circ\text{C}$)

Rated Voltage: 50V (1H), 25V (1E)

Capacitance (pF)	Cap Code	Tolerance	COG	
			1H (50V)	1E (25V)
0.50	0R5	B: $\pm 0.1\text{pF}$		
0.75	R75	C: $\pm 0.25\text{pF}$		
1.0	010			
1.2	1R2			
1.5	1R5			
1.8	1R8			
2.2	2R2			
2.7	2R7			
3.3	3R3			
3.9	3R9			
4.7	4R7			
5.6	5R6	C: $\pm 0.25\text{pF}$		
6.8	6R8	D: $\pm 0.5\text{pF}$		
8.2	8R2			
10	100			
12	120	J: $\pm 05\%$		
15	150			
18	180			
22	220			
27	270			
33	330			
39	390			
47	470			
56	560			
68	680			
82	820			
100	101			
120	121			
150	151			
180	181			
220	221			
270	271			
330	331			
390	391			
470	471			
560	561			
680	681			
820	821			
1,000	102			
1,200	122			
1,500	152			
1,800	182			
2,200	222			
2,700	272			
3,300	332			
3,900	392			
4,700	472			
5,600	562			
6,800	682			
8,200	822			
10,000	103			

Standard Thickness

$0.80 \pm 0.15 \text{ mm}$

• All specifications are subject to change without notice. Please read the precautions before using the product.



Capacitance Range Chart

C1608 [EIA CC0603]

Capacitance Range Chart

Temperature Characteristics: X5R ($\pm 15\%$), X6S ($\pm 22\%$)
 Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J), 4V (0G)

Capacitance (pF)	Cap Code	Tolerance	X5R						X6S	
			1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)	0G (4V)	1A (10V)	0G (4V)
100,000	104	K: $\pm 10\%$ M: $\pm 20\%$	█							
150,000	154									
220,000	224									
330,000	334									
470,000	474									
680,000	684									
1,000,000	105									
1,500,000	155									
2,200,000	225									
3,300,000	335									
4,700,000	475									
6,800,000	685									
10,000,000	106									

Capacitance Range Chart

Temperature Characteristics: X7R ($\pm 15\%$), Y5V (+22/-82%)
 Rated Voltage: 50V (1H), 25V (1E), 16V (1C), 10V (1A), 6.3V (0J)

Capacitance (pF)	Cap Code	Tolerance	X7R				Y5V				
			1H (50V)	1E (25V)	1C (16V)	1A (10V)	1H (50V)	1E (25V)	1C (16V)	1A (10V)	0J (6.3V)
100	101	K: $\pm 10\%$ M: $\pm 20\%$	█								
220	221										
330	331										
470	471										
680	681										
1,000	102										
1,500	152										
2,200	222										
3,300	332										
4,700	472										
6,800	682										
10,000	103										
15,000	153										
22,000	223										
33,000	333										
47,000	473										
68,000	683										
100,000	104	K: $\pm 10\%$ M: $\pm 20\%$ Z: +80/-20%	█								
150,000	154										
220,000	224										
330,000	334										
470,000	474										
680,000	684										
1,000,000	105										
2,200,000	225										
4,700,000	475										
10,000,000	106										

• Z (+80/-20%) tolerance is standard for Y5V temperature characteristic. Does not apply to Class 2 temperature characteristics (X5R, X7R, etc.)

Standard Thickness

0.50 \pm 0.05 mm 0.80 \pm 0.15 mm

• All specifications are subject to change without notice. Please read the precautions before using the product.



Capacitance Range Table

C1608 [EIA CC0603]

Class 1 (Temperature Compensating)

Temperature Characteristics: C0G (0 ± 30 ppm/°C)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608C0G1H0R5B	C0G	50V	0.5	± 0.10 pF	0.80 ± 0.15
C1608C0G1H0R5C	C0G	50V	0.5	± 0.25 pF	0.80 ± 0.15
C1608C0G1HR75C	C0G	50V	0.8	± 0.25 pF	0.80 ± 0.15
C1608C0G1H010B	C0G	50V	1.0	± 0.10 pF	0.80 ± 0.15
C1608C0G1H010C	C0G	50V	1.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H1R2B	C0G	50V	1.2	± 0.10 pF	0.80 ± 0.15
C1608C0G1H1R2C	C0G	50V	1.2	± 0.25 pF	0.80 ± 0.15
C1608C0G1H1R5B	C0G	50V	1.5	± 0.10 pF	0.80 ± 0.15
C1608C0G1H1R5C	C0G	50V	1.5	± 0.25 pF	0.80 ± 0.15
C1608C0G1H1R8B	C0G	50V	1.8	± 0.10 pF	0.80 ± 0.15
C1608C0G1H1R8C	C0G	50V	1.8	± 0.25 pF	0.80 ± 0.15
C1608C0G1H020B	C0G	50V	2.0	± 0.10 pF	0.80 ± 0.15
C1608C0G1H020C	C0G	50V	2.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H2R2B	C0G	50V	2.2	± 0.10 pF	0.80 ± 0.15
C1608C0G1H2R2C	C0G	50V	2.2	± 0.25 pF	0.80 ± 0.15
C1608C0G1H2R7B	C0G	50V	2.7	± 0.10 pF	0.80 ± 0.15
C1608C0G1H2R7C	C0G	50V	2.7	± 0.25 pF	0.80 ± 0.15
C1608C0G1H030B	C0G	50V	3.0	± 0.10 pF	0.80 ± 0.15
C1608C0G1H030C	C0G	50V	3.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H3R3B	C0G	50V	3.3	± 0.10 pF	0.80 ± 0.15
C1608C0G1H3R3C	C0G	50V	3.3	± 0.25 pF	0.80 ± 0.15
C1608C0G1H3R9B	C0G	50V	3.9	± 0.10 pF	0.80 ± 0.15
C1608C0G1H3R9C	C0G	50V	3.9	± 0.25 pF	0.80 ± 0.15
C1608C0G1H040B	C0G	50V	4.0	± 0.10 pF	0.80 ± 0.15
C1608C0G1H040C	C0G	50V	4.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H4R7B	C0G	50V	4.7	± 0.10 pF	0.80 ± 0.15
C1608C0G1H4R7C	C0G	50V	4.7	± 0.25 pF	0.80 ± 0.15
C1608C0G1H050B	C0G	50V	5.0	± 0.10 pF	0.80 ± 0.15
C1608C0G1H050C	C0G	50V	5.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H5R6C	C0G	50V	5.6	± 0.25 pF	0.80 ± 0.15
C1608C0G1H5R6D	C0G	50V	5.6	± 0.50 pF	0.80 ± 0.15
C1608C0G1H060C	C0G	50V	6.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H060D	C0G	50V	6.0	± 0.50 pF	0.80 ± 0.15
C1608C0G1H6R8C	C0G	50V	6.8	± 0.25 pF	0.80 ± 0.15
C1608C0G1H6R8D	C0G	50V	6.8	± 0.50 pF	0.80 ± 0.15
C1608C0G1H070C	C0G	50V	7.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H070D	C0G	50V	7.0	± 0.50 pF	0.80 ± 0.15
C1608C0G1H080C	C0G	50V	8.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H080D	C0G	50V	8.0	± 0.50 pF	0.80 ± 0.15
C1608C0G1H8R2C	C0G	50V	8.2	± 0.25 pF	0.80 ± 0.15
C1608C0G1H8R2D	C0G	50V	8.2	± 0.50 pF	0.80 ± 0.15
C1608C0G1H090C	C0G	50V	9.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H090D	C0G	50V	9.0	± 0.50 pF	0.80 ± 0.15
C1608C0G1H100C	C0G	50V	10.0	± 0.25 pF	0.80 ± 0.15
C1608C0G1H100D	C0G	50V	10.0	± 0.50 pF	0.80 ± 0.15
C1608C0G1H110J	C0G	50V	11.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H120J	C0G	50V	12.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H130J	C0G	50V	13.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H150J	C0G	50V	15.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H160J	C0G	50V	16.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H180J	C0G	50V	18.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H200J	C0G	50V	20.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H220J	C0G	50V	22.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H240J	C0G	50V	24.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H270J	C0G	50V	27.0	$\pm 5\%$	0.80 ± 0.15
C1608C0G1H300J	C0G	50V	30.0	$\pm 5\%$	0.80 ± 0.15

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Capacitance Range Table

C1608 [EIA CC0603]

Class 1 (Temperature Compensating) (Continued)

Temperature Characteristics: C0G (0 ± 30 ppm/°C)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608C0G1H330J	C0G	50V	33	± 5%	0.80 ± 0.15
C1608C0G1H360J	C0G	50V	36	± 5%	0.80 ± 0.15
C1608C0G1H390J	C0G	50V	39	± 5%	0.80 ± 0.15
C1608C0G1H430J	C0G	50V	43	± 5%	0.80 ± 0.15
C1608C0G1H470J	C0G	50V	47	± 5%	0.80 ± 0.15
C1608C0G1H510J	C0G	50V	51	± 5%	0.80 ± 0.15
C1608C0G1H560J	C0G	50V	56	± 5%	0.80 ± 0.15
C1608C0G1H620J	C0G	50V	62	± 5%	0.80 ± 0.15
C1608C0G1H680J	C0G	50V	68	± 5%	0.80 ± 0.15
C1608C0G1H750J	C0G	50V	75	± 5%	0.80 ± 0.15
C1608C0G1H820J	C0G	50V	82	± 5%	0.80 ± 0.15
C1608C0G1H910J	C0G	50V	91	± 5%	0.80 ± 0.15
C1608C0G1H101J	C0G	50V	100	± 5%	0.80 ± 0.15
C1608C0G1H111J	C0G	50V	110	± 5%	0.80 ± 0.15
C1608C0G1H121J	C0G	50V	120	± 5%	0.80 ± 0.15
C1608C0G1H131J	C0G	50V	130	± 5%	0.80 ± 0.15
C1608C0G1H151J	C0G	50V	150	± 5%	0.80 ± 0.15
C1608C0G1H161J	C0G	50V	160	± 5%	0.80 ± 0.15
C1608C0G1H181J	C0G	50V	180	± 5%	0.80 ± 0.15
C1608C0G1H201J	C0G	50V	200	± 5%	0.80 ± 0.15
C1608C0G1H221J	C0G	50V	220	± 5%	0.80 ± 0.15
C1608C0G1H241J	C0G	50V	240	± 5%	0.80 ± 0.15
C1608C0G1H271J	C0G	50V	270	± 5%	0.80 ± 0.15
C1608C0G1H301J	C0G	50V	300	± 5%	0.80 ± 0.15
C1608C0G1H331J	C0G	50V	330	± 5%	0.80 ± 0.15
C1608C0G1H361J	C0G	50V	360	± 5%	0.80 ± 0.15
C1608C0G1H391J	C0G	50V	390	± 5%	0.80 ± 0.15
C1608C0G1H431J	C0G	50V	430	± 5%	0.80 ± 0.15
C1608C0G1H471J	C0G	50V	470	± 5%	0.80 ± 0.15
C1608C0G1H511J	C0G	50V	510	± 5%	0.80 ± 0.15
C1608C0G1H561J	C0G	50V	560	± 5%	0.80 ± 0.15
C1608C0G1H621J	C0G	50V	620	± 5%	0.80 ± 0.15
C1608C0G1H681J	C0G	50V	680	± 5%	0.80 ± 0.15
C1608C0G1H751J	C0G	50V	750	± 5%	0.80 ± 0.15
C1608C0G1H821J	C0G	50V	820	± 5%	0.80 ± 0.15
C1608C0G1H911J	C0G	50V	910	± 5%	0.80 ± 0.15
C1608C0G1H102J	C0G	50V	1,000	± 5%	0.80 ± 0.15
C1608C0G1H122J	C0G	50V	1,200	± 5%	0.80 ± 0.15
C1608C0G1H152J	C0G	50V	1,500	± 5%	0.80 ± 0.15
C1608C0G1H182J	C0G	50V	1,800	± 5%	0.80 ± 0.15
C1608C0G1H222J	C0G	50V	2,200	± 5%	0.80 ± 0.15
C1608C0G1H272J	C0G	50V	2,700	± 5%	0.80 ± 0.15
C1608C0G1H332J	C0G	50V	3,300	± 5%	0.80 ± 0.15
C1608C0G1H392J	C0G	50V	3,900	± 5%	0.80 ± 0.15
C1608C0G1H472J	C0G	50V	4,700	± 5%	0.80 ± 0.15
C1608C0G1H562J	C0G	50V	5,600	± 5%	0.80 ± 0.15
C1608C0G1H682J	C0G	50V	6,800	± 5%	0.80 ± 0.15
C1608C0G1H822J	C0G	50V	8,200	± 5%	0.80 ± 0.15
C1608C0G1H103J	C0G	50V	10,000	± 5%	0.80 ± 0.15
C1608C0G1E392J	C0G	25V	3,900	± 5%	0.80 ± 0.15
C1608C0G1E472J	C0G	25V	4,700	± 5%	0.80 ± 0.15
C1608C0G1E562J	C0G	25V	5,600	± 5%	0.80 ± 0.15
C1608C0G1E682J	C0G	25V	6,800	± 5%	0.80 ± 0.15
C1608C0G1E822J	C0G	25V	8,200	± 5%	0.80 ± 0.15
C1608C0G1E103J	C0G	25V	10,000	± 5%	0.80 ± 0.15

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Capacitance Range Table

C1608 [EIA CC0603]

Class 2 (Temperature Stable)

Temperature Characteristics: X7R ($\pm 15\%$)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608X7R1H101K	X7R	50V	100	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H101M	X7R	50V	100	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H221K	X7R	50V	220	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H221M	X7R	50V	220	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H331K	X7R	50V	330	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H331M	X7R	50V	330	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H471K	X7R	50V	470	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H471M	X7R	50V	470	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H681K	X7R	50V	680	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H681M	X7R	50V	680	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H102J	X7R	50V	1,000	$\pm 5\%$	0.80 \pm 0.15
C1608X7R1H102K	X7R	50V	1,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H102M	X7R	50V	1,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H152K	X7R	50V	1,500	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H152M	X7R	50V	1,500	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H222K	X7R	50V	2,200	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H222M	X7R	50V	2,200	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H332K	X7R	50V	3,300	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H332M	X7R	50V	3,300	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H472K	X7R	50V	4,700	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H472M	X7R	50V	4,700	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H682K	X7R	50V	6,800	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H682M	X7R	50V	6,800	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H103J	X7R	50V	10,000	$\pm 5\%$	0.80 \pm 0.15
C1608X7R1H103K	X7R	50V	10,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H103M	X7R	50V	10,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H153K	X7R	50V	15,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H153M	X7R	50V	15,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H223K	X7R	50V	22,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H223M	X7R	50V	22,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H333K	X7R	50V	33,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H333M	X7R	50V	33,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H473K	X7R	50V	47,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H473M	X7R	50V	47,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H683K	X7R	50V	68,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H683M	X7R	50V	68,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H104K	X7R	50V	100,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H104M	X7R	50V	100,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H154K	X7R	50V	150,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H154M	X7R	50V	150,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H224K	X7R	50V	220,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H224M	X7R	50V	220,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H334K	X7R	50V	330,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H334M	X7R	50V	330,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1H474K	X7R	50V	470,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1H474M	X7R	50V	470,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1E103J	X7R	25V	10,000	$\pm 5\%$	0.80 \pm 0.15
C1608X7R1E103K	X7R	25V	10,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1E103M	X7R	25V	10,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1E153K	X7R	25V	15,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1E153M	X7R	25V	15,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1E223K	X7R	25V	22,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1E223M	X7R	25V	22,000	$\pm 20\%$	0.80 \pm 0.15
C1608X7R1E333K	X7R	25V	33,000	$\pm 10\%$	0.80 \pm 0.15
C1608X7R1E333M	X7R	25V	33,000	$\pm 20\%$	0.80 \pm 0.15



Capacitance Range Table

C1608 [EIA CC0603]

Class 2 (Temperature Stable) (Continued)

Temperature Characteristics: X7R ($\pm 15\%$), X5R ($\pm 15\%$)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608X7R1E473K	X7R	25V	47,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E473M	X7R	25V	47,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E683K	X7R	25V	68,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E683M	X7R	25V	68,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E104K	X7R	25V	100,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E104M	X7R	25V	100,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E154K	X7R	25V	150,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E154M	X7R	25V	150,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E224K	X7R	25V	220,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E224M	X7R	25V	220,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E334K	X7R	25V	330,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E334M	X7R	25V	330,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E474K	X7R	25V	470,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E474M	X7R	25V	470,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E684K	X7R	25V	680,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E684M	X7R	25V	680,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1E105K	X7R	25V	1,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1E105M	X7R	25V	1,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C223K	X7R	16V	22,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C223M	X7R	16V	22,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C333K	X7R	16V	33,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C333M	X7R	16V	33,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C473K	X7R	16V	47,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C473M	X7R	16V	47,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C683K	X7R	16V	68,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C683M	X7R	16V	68,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C104K	X7R	16V	100,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C104M	X7R	16V	100,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C154K	X7R	16V	150,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C154M	X7R	16V	150,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C224K	X7R	16V	220,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C224M	X7R	16V	220,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C334K	X7R	16V	330,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C334M	X7R	16V	330,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C474K	X7R	16V	470,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C474M	X7R	16V	470,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C684K	X7R	16V	680,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C684M	X7R	16V	680,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1C105K	X7R	16V	1,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1C105M	X7R	16V	1,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1A224K	X7R	10V	220,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1A224M	X7R	10V	220,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1A334K	X7R	10V	330,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1A334M	X7R	10V	330,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1A474K	X7R	10V	470,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1A474M	X7R	10V	470,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1A105K	X7R	10V	1,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1A105M	X7R	10V	1,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R1A225K	X7R	10V	2,200,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R1A225M	X7R	10V	2,200,000	$\pm 20\%$	0.80 ± 0.15
C1608X7R0J225K	X7R	6.3V	2,200,000	$\pm 10\%$	0.80 ± 0.15
C1608X7R0J225M	X7R	6.3V	2,200,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R1H104K	X5R	50V	100,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R1H104M	X5R	50V	100,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R1H154K	X5R	50V	150,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R1H154M	X5R	50V	150,000	$\pm 20\%$	0.80 ± 0.15

• All specifications are subject to change without notice. Please read the precautions before using the product.



Capacitance Range Table

C1608 [EIA CC0603]

Class 2 (Temperature Stable) (Continued)

Temperature Characteristics: X5R ($\pm 15\%$)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608X5R1H224K	X5R	50V	220,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1H224M	X5R	50V	220,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1H334K	X5R	50V	330,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1H334M	X5R	50V	330,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1H474K	X5R	50V	470,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1H474M	X5R	50V	470,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1H684K	X5R	50V	680,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1H684M	X5R	50V	680,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1H105K	X5R	50V	1,000,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1H105M	X5R	50V	1,000,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E154K	X5R	25V	150,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E154M	X5R	25V	150,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E224K	X5R	25V	220,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E224M	X5R	25V	220,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E334K	X5R	25V	330,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E334M	X5R	25V	330,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E474K	X5R	25V	470,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E474M	X5R	25V	470,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E105K	X5R	25V	1,000,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E105M	X5R	25V	1,000,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E155K	X5R	25V	1,500,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E155M	X5R	25V	1,500,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1E225K	X5R	25V	2,200,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1E225M	X5R	25V	2,200,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C224K	X5R	16V	220,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C224M	X5R	16V	220,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C334K	X5R	16V	330,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C334M	X5R	16V	330,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C474K	X5R	16V	470,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C474M	X5R	16V	470,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C684K	X5R	16V	680,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C684M	X5R	16V	680,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C105K	X5R	16V	1,000,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C105M	X5R	16V	1,000,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C225K/0.50	X5R	16V	2,200,000	$\pm 10\%$	0.50 \pm 0.05
C1608X5R1C225M/0.50	X5R	16V	2,200,000	$\pm 20\%$	0.50 \pm 0.05
C1608X5R1C225K/0.80	X5R	16V	2,200,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C225M/0.80	X5R	16V	2,200,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C335K	X5R	16V	3,300,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C335M	X5R	16V	3,300,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1C475K	X5R	16V	4,700,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1C475M	X5R	16V	4,700,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1A224K	X5R	10V	220,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1A224M	X5R	10V	220,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1A334K	X5R	10V	330,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1A334M	X5R	10V	330,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1A474K	X5R	10V	470,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1A474M	X5R	10V	470,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1A684K	X5R	10V	680,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1A684M	X5R	10V	680,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1A105K	X5R	10V	1,000,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1A105M	X5R	10V	1,000,000	$\pm 20\%$	0.80 \pm 0.15
C1608X5R1A225K/0.50	X5R	10V	2,200,000	$\pm 10\%$	0.50 \pm 0.05
C1608X5R1A225M/0.50	X5R	10V	2,200,000	$\pm 20\%$	0.50 \pm 0.05
C1608X5R1A225K/0.80	X5R	10V	2,200,000	$\pm 10\%$	0.80 \pm 0.15
C1608X5R1A225M/0.80	X5R	10V	2,200,000	$\pm 20\%$	0.80 \pm 0.15

* All specifications are subject to change without notice. Please read the precautions before using the product.



Capacitance Range Table

C1608 [EIA CC0603]

Class 2 (Temperature Stable) (Continued)

Temperature Characteristics: X5R ($\pm 15\%$), X6S ($\pm 22\%$)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608X5R1A335K	X5R	10V	3,300,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R1A335M	X5R	10V	3,300,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R1A475K/0.50	X5R	10V	4,700,000	$\pm 10\%$	0.50 ± 0.05
C1608X5R1A475M/0.50	X5R	10V	4,700,000	$\pm 20\%$	0.50 ± 0.05
C1608X5R1A475K/0.80	X5R	10V	4,700,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R1A475M/0.80	X5R	10V	4,700,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R1A685K	X5R	10V	6,800,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R1A685M	X5R	10V	6,800,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R1A106K	X5R	10V	10,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R1A106M	X5R	10V	10,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J105K	X5R	6.3V	1,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J105M	X5R	6.3V	1,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J155K	X5R	6.3V	1,500,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J155M	X5R	6.3V	1,500,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J225K	X5R	6.3V	2,200,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J225M	X5R	6.3V	2,200,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J335K	X5R	6.3V	3,300,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J335M	X5R	6.3V	3,300,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J475K/0.50	X5R	6.3V	4,700,000	$\pm 10\%$	0.50 ± 0.05
C1608X5R0J475M/0.50	X5R	6.3V	4,700,000	$\pm 20\%$	0.50 ± 0.05
C1608X5R0J475K/0.80	X5R	6.3V	4,700,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J475M/0.80	X5R	6.3V	4,700,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J685K	X5R	6.3V	6,800,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J685M	X5R	6.3V	6,800,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0J106K	X5R	6.3V	10,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X5R0J106M	X5R	6.3V	10,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X5R0G106M	X5R	4V	10,000,000	$\pm 20\%$	0.80 ± 0.15
C1608X6S1A225K/0.50	X6S	10V	2,200,000	$\pm 10\%$	0.50 ± 0.05
C1608X6S1A225M/0.50	X6S	10V	2,200,000	$\pm 20\%$	0.50 ± 0.05
C1608X6S1A475K	X6S	10V	4,700,000	$\pm 10\%$	0.80 ± 0.15
C1608X6S1A475M	X6S	10V	4,700,000	$\pm 20\%$	0.80 ± 0.15
C1608X6S0G225K/0.50	X6S	4V	2,200,000	$\pm 10\%$	0.50 ± 0.05
C1608X6S0G225M/0.50	X6S	4V	2,200,000	$\pm 20\%$	0.50 ± 0.05
C1608X6S0G475K/0.50	X6S	4V	4,700,000	$\pm 10\%$	0.50 ± 0.05
C1608X6S0G475M/0.50	X6S	4V	4,700,000	$\pm 20\%$	0.50 ± 0.05
C1608X6S0G475K/0.80	X6S	4V	4,700,000	$\pm 10\%$	0.80 ± 0.15
C1608X6S0G475M/0.80	X6S	4V	4,700,000	$\pm 20\%$	0.80 ± 0.15
C1608X6S0G106K	X6S	4V	10,000,000	$\pm 10\%$	0.80 ± 0.15
C1608X6S0G106M	X6S	4V	10,000,000	$\pm 20\%$	0.80 ± 0.15



Capacitance Range Table

C1608 [EIA CC0603]

Class 3 (General Purpose)

Temperature Characteristics: Y5V (+22/-82%)

TDK Part Number (Ordering Code)	Temperature Characteristics	Rated Voltage	Capacitance (pF)	Capacitance Tolerance	Thickness (mm)
C1608Y5V1H104Z	Y5V	50V	100,000	+80/-20%	0.80 ± 0.15
C1608Y5V1H224Z	Y5V	50V	220,000	+80/-20%	0.80 ± 0.15
C1608Y5V1H474Z	Y5V	50V	470,000	+80/-20%	0.80 ± 0.15
C1608Y5V1E104Z	Y5V	25V	100,000	+80/-20%	0.80 ± 0.15
C1608Y5V1E224Z	Y5V	25V	220,000	+80/-20%	0.80 ± 0.15
C1608Y5V1E474Z	Y5V	25V	470,000	+80/-20%	0.80 ± 0.15
C1608Y5V1E105Z	Y5V	25V	1,000,000	+80/-20%	0.80 ± 0.15
C1608Y5V1C104Z	Y5V	16V	100,000	+80/-20%	0.80 ± 0.15
C1608Y5V1C105Z	Y5V	16V	1,000,000	+80/-20%	0.80 ± 0.15
C1608Y5V1C225Z	Y5V	16V	2,200,000	+80/-20%	0.80 ± 0.15
C1608Y5V1A105Z	Y5V	10V	1,000,000	+80/-20%	0.80 ± 0.15
C1608Y5V1A225Z	Y5V	10V	2,200,000	+80/-20%	0.80 ± 0.15
C1608Y5V0J475Z	Y5V	6.3V	4,700,000	+80/-20%	0.80 ± 0.15
C1608Y5V0J106Z	Y5V	6.3V	10,000,000	+80/-20%	0.80 ± 0.15