



Capacitance Range

Dielectric	X5R												
	0402			0603				0805				1210	
Size	6.3 (V)	10 (V)	16 (V)	6.3 (V)	10 (V)	16 (V)	25 (V)	6.3 (V)	10 (V)	16 (V)	25 (V)	10 (V)	16 (V)
Rated Voltage (V dc)	6.3 (V)	10 (V)	16 (V)	6.3 (V)	10 (V)	16 (V)	25 (V)	6.3 (V)	10 (V)	16 (V)	25 (V)	10 (V)	16 (V)
0.027µF (273)	-	-	N	-	-	-	-	-	-	-	-	-	-
0.033µF (333)	-	-	N	-	-	-	-	-	-	-	-	-	-
0.039µF (393)	-	-	N	-	-	-	-	-	-	-	-	-	-
0.047µF (473)	-	-	N	-	-	-	-	-	-	-	-	-	-
0.056µF (563)	-	N	N	-	-	-	-	-	-	-	-	-	-
0.068µF (683)	-	N	N	-	-	-	-	-	-	-	-	-	-
0.082µF (823)	N	N	N	-	-	-	-	-	-	-	-	-	-
0.10µF (104)	N	N	N	-	-	-	-	-	-	-	-	-	-
0.22µF (224)	N	-	-	-	-	X	X	-	-	-	-	-	-
0.33µF (334)	N	-	-	-	X	X	X	-	-	-	-	-	-
0.47µF (474)	N	-	-	-	X	X	X	-	-	-	-	-	-
0.68µF (684)	N	-	-	X	X	X	X	-	-	-	-	-	-
1.0µF (105)	N	-	-	X	X	X	X	-	-	-	-	-	-
1.5µF (155)	-	-	-	X	-	-	-	I	I	-	-	K	K
2.2µF (225)	-	-	-	X	-	-	-	I	I	I	I	K	K
3.3µF (335)	-	-	-	-	-	-	-	I	I	I	I	-	-
4.7µF (475)	-	-	-	-	-	-	-	I	I	I	I	K	K
6.8µF (685)	-	-	-	-	-	-	-	-	-	-	-	-	-
10µF (106)	-	-	-	-	-	-	-	I	-	-	-	K	K
22µF (226)	-	-	-	-	-	-	-	-	-	-	-	-	-

1. The letter in cell is expressed the symbol of product thickness.

Capacitance Range

Dielectric	Y5V													
	0603		0805				1206				1210			
Size	10 (V)	16 (V)	10 (V)	16 (V)	25 (V)	50 (V)	10 (V)	16 (V)	25 (V)	50 (V)	10 (V)	16 (V)	25 (V)	50 (V)
Rated Voltage (V dc)	10 (V)	16 (V)	10 (V)	16 (V)	25 (V)	50 (V)	10 (V)	16 (V)	25 (V)	50 (V)	10 (V)	16 (V)	25 (V)	50 (V)
1.0µF (105)	S	X	B	B	D	D	C	C	C	C	C	C	C	C
1.5µF (155)	S	-	D	D	-	-	C	C	C	-	C	C	C	-
2.2µF (225)	S	-	D	D	I	-	C	C	C	-	C	C	C	G
3.3µF (335)	-	-	D	D	-	-	J	J	J	-	C	C	C	-
4.7µF (475)	-	-	D	D	I	-	J	J	J	-	C	C	D	G
6.8µF (685)	-	-	I	-	-	-	J	J	-	-	C	C	D	-
10µF (106)	-	-	I	-	-	-	J	J	P	-	D	D	G	-
22µF (226)	-	-	-	-	-	-	P	-	-	-	K	K	-	-
47µF (476)	-	-	-	-	-	-	-	-	-	-	K	-	-	-
100µF (107)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1. The letter in cell is expressed the symbol of product thickness.

Capacitance Range

Dielectric	X7R				
	1206			1812	
Size	10 (V)	16 (V)	25 (V)	50 (V)	100 (V)
Rated Voltage (V dc)	10 (V)	16 (V)	25 (V)	50 (V)	100 (V)
1.0µF (105)	J	J	J	-	K
1.5µF (155)	J	J	-	-	K
2.2µF (225)	J	J	J	-	M
3.3µF (335)	P	P	P	-	-
4.7µF (475)	P	P	P	-	-

1. The letter in cell is expressed the symbol of product thickness.

Dimensions Table

Size Inch (mm)	Thickness (mm)/Symbol	
0402 (1005)	0.50 ±0.05	N
0603 (1608)	0.80 ±0.07	S
	0.80 + 0.15/-0.10	X
0805 (2012)	0.80 ±0.10	B
	1.25 ±0.10	D
	1.25 ±0.20	I
1206 (3216)	0.95 ±0.10	C
	1.15 ±0.15	J
	1.60 ±0.20	G
	1.60 +0.30/-0.10	P
1210 (3225)	0.95 ±0.10	C
	1.25 ±0.10	D
	1.60 ±0.20	G
	2.00 ±0.20	K
	2.50 ±0.30	M
1812 (4532)	1.25 ±0.10	D
	2.00 ±0.20	K
	2.50 ±0.30	M

Dimensions

Size Inch (mm)	L (mm)	W (mm)	M _B (mm)
0402 (1005)	1.00 ±0.05	0.50 ±0.05	0.25 +0.05/-0.10
0603 (1608)	1.60 ±0.10	0.80 ±0.10	0.40 ±0.15
	1.60 +0.15/-0.10	0.80 +0.15/-0.10	
0805 (2012)	2.00 ±0.15	1.25 ±0.10	0.50 ±0.20
	2.00 ±0.20	1.25 ±0.20	
1206 (3216)	3.20 ±0.15	1.60 ±0.15	0.60 ±0.20
	3.20 ±0.20	1.60 ±0.15	
		1.60 ±0.20	
		1.60 +0.30/-0.10	
1210 (3225)	3.20 ±0.30	2.50 ±0.20	0.75 ±0.25
	3.20 ±0.40	2.50 ±0.30	
1812 (4532)	4.50 ±0.40	3.20 ±0.30	0.75 ±0.25

Dimensions : Inches (Millimetres)

Specification Table

Description	Dielectric	Size	Rated Voltage (V dc)	Capacitance (μF)	Part Number	
MLCC,0402, X5R, 6.3V, 0.22μF	X5R	0402 (1005)	6.3	0.22 (224)	MCCA000498	
MLCC,0402, X5R, 6.3V, 0.47μF				0.47 (474)	MCCA000499	
MLCC,0402, X5R, 6.3V, 1μF				1 (105)	MCCA000500	
MLCC,0402, X5R, 6.3V, 2.2μF				2.2 (225)	MCCA000501	
MLCC,0402, X5R, 10V, 0.056μF			10	0.056 (563)	MCCA000502	
MLCC,0402, X5R, 10V, 0.068μF				0.068 (683)	MCCA000503	
MLCC,0402, X5R, 10V, 0.082μF				0.082 (823)	MCCA000504	
MLCC,0402, X5R, 10V, 0.1μF				0.1 (104)	MCCA000505	
MLCC,0402, X5R, 10V, 1μF				1 (105)	MCCA000506	
MLCC,0402, X5R, 16V, 0.027μF				16	0.027 (273)	MCCA000507
MLCC,0402, X5R, 16V, 0.033μF			0.033 (333)		MCCA000508	
MLCC,0402, X5R, 16V, 0.039μF			0.039 (393)		MCCA000509	
MLCC,0402, X5R, 16V, 0.047μF			0.047 (473)		MCCA000510	
MLCC,0402, X5R, 16V, 0.068μF			0.068 (683)		MCCA000511	
MLCC,0402, X5R, 16V, 0.1μF			0.1 (104)		MCCA000512	
MLCC,0402, X5R, 16V, 0.22μF			0.22 (224)		MCCA000513	
MLCC,0603, X5R, 6.3V, 0.82μF			0603 (1608)		6.3	0.82
MLCC,0603, X5R, 6.3V, 1μF				1 (105)		MCCA000515
MLCC,0603, X5R, 6.3V, 2.2μF		2.2 (225)		MCCA000516		
MLCC,0603, X5R, 6.3V, 10μF		10 (106)		MCCA000517		
MLCC,0603, X5R, 10V, 0.33μF		10		0.33 (334)	MCCA000518	
MLCC,0603, X5R, 10V, 0.47μF				0.47 (474)	MCCA000519	
MLCC,0603, X5R, 10V, 0.68μF				0.68 (684)	MCCA000520	

Dimensions : Inches (Millimetres)

Specification Table

Description	Dielectric	Size	Rated Voltage (V dc)	Capacitance (µF)	Part Number	
MLCC,0603, Y5V, 10V, 1µF	Y5V	0603 (1608)	10	1 (105)	MCCA000521	
MLCC,0603, X5R, 10V, 1µF	X5R			1 (105)	MCCA000522	
MLCC,0603, Y5V, 10V, 2.2µF				2.2 (225)	MCCA000523	
MLCC,0603, X5R, 10V, 2.2µF				2.2 (225)	MCCA000524	
MLCC,0603, X5R, 16V, 0.22µF			16	0.22 (224)	MCCA000525	
MLCC,0603, X5R, 16V, 0.33µF				0.33 (334)	MCCA000526	
MLCC,0603, X5R, 16V, 0.47µF				0.47 (474)	MCCA000527	
MLCC,0603, X5R, 16V, 0.68µF				0.68 (684)	MCCA000528	
MLCC,0603, X5R, 16V, 1µF			1 (105)	MCCA000529		
MLCC,0603, Y5V, 16V, 1µF			Y5V	1 (105)	MCCA000530	
MLCC,0603, X5R, 25V, 1µF				25	1 (105)	MCCA000531
MLCC,0805, X5R, 6.3V, 1.5µF	X5R			6.3	1.5 (155)	MCCA000532
MLCC,0805, X5R, 6.3V, 2.2µF					2.2 (225)	MCCA000533
MLCC,0805, X5R, 6.3V, 3.3µF					3.3 (335)	MCCA000534
MLCC,0805, X5R, 6.3V, 4.7µF					4.7 (475)	MCCA000535
MLCC,0805, X5R, 6.3V, 22µF					22 (226)	MCCA000536
MLCC,0805, X5R, 10V, 2.2µF	Y5V			10	2.2 (225)	MCCA000537
MLCC,0805, Y5V, 10V, 3.3µF					3.3 (335)	MCCA000538
MLCC,0805, X5R, 10V, 3.3µF		3.3 (335)			MCCA000539	
MLCC,0805, Y5V, 10V, 4.7µF		4.7 (475)		MCCA000540		
MLCC,0805, X5R, 10V, 4.7µF		X5R	4.7 (475)	MCCA000541		
MLCC,0805, Y5V, 10V, 10µF		Y5V	16	10 (106)	MCCA000542	
MLCC,0805, Y5V, 16V, 1µF				1 (105)	MCCA000543	
MLCC,0805, Y5V, 16V, 1.5µF	1.5 (155)			MCCA000544		
MLCC,0805, Y5V, 16V, 2.2µF	2.2 (225)			MCCA000545		

Dimensions : Inches (Millimetres)

Specification Table

Description	Dielectric	Size	Rated Voltage (V dc)	Capacitance (µF)	Part Number	
MLCC,0805, X5R, 16V, 2.2µF	X5R	0805 (2012)	16	2.2 (225)	MCCA000546	
MLCC,0805, Y5V, 16V, 4.7µF	Y5V			4.7 (475)	MCCA000547	
MLCC,0805, X5R, 16V, 4.7µF	X5R				MCCA000548	
MLCC,0805, Y5V, 25V, 1µF	Y5V		25	50	1 (105)	MCCA000549
MLCC,0805, X5R, 25V, 2.2µF	X5R				2.2 (225)	MCCA000550
MLCC,0805, X5R, 25V, 4.7µF					4.7 (475)	MCCA000551
MLCC,0805, Y5V, 50V, 1µF	Y5V			1 (105)	MCCA000552	
MLCC,1206, X7R, 10V, 1.5µF	X7R		1206 (3216)	10	1.5 (155)	MCCA000553
MLCC,1206, Y5V, 10V, 10µF	Y5V				10 (106)	MCCA000554
MLCC,1206, Y5V, 10V, 22µF					22 (226)	MCCA000555
MLCC,1206, X7R, 16V, 1µF	X7R	16		25	1 (105)	MCCA000556
MLCC,1206, Y5V, 16V, 1µF	Y5V					MCCA000557
MLCC,1206, X7R, 16V, 1.5µF	X7R				1.5 (155)	MCCA000558
MLCC,1206, Y5V, 16V, 1.5µF	Y5V					MCCA000559
MLCC,1206, X7R, 16V, 2.2µF	X7R				2.2 (225)	MCCA000560
MLCC,1206, Y5V, 16V, 2.2µF	Y5V					MCCA000561
MLCC,1206, Y5V, 16V, 3.3µF					3.3 (335)	MCCA000562
MLCC,1206, Y5V, 16V, 4.7µF					4.7 (475)	MCCA000563
MLCC,1206, Y5V, 16V, 10µF					10 (106)	MCCA000564
MLCC,1206, X7R, 25V, 1µF	X7R	25		50	1 (105)	MCCA000565
MLCC,1206, Y5V, 25V, 1µF	Y5V					MCCA000566
MLCC,1206, Y5V, 25V, 1.5µF					1.5 (155)	MCCA000567
MLCC,1206, Y5V, 25V, 2.2µF					2.2 (225)	MCCA000568
MLCC,1206, Y5V, 25V, 4.7µF					4.7 (475)	MCCA000569

Dimensions : Inches (Millimetres)

Specification Table

Description	Dielectric	Size	Rated Voltage (V dc)	Capacitance (µF)	Part Number
MLCC,1206, Y5V, 25V, 10µF	Y5V	1206 (3216)	25	10 (106)	MCCA000570
MLCC,1206, X7R, 50V, 1µF	X7R		50	1 (105)	MCCA000571
MLCC,1206, Y5V, 50V, 1µF	Y5V				MCCA000572
MLCC,1210, X5R, 6.3V, 22µF	X5R	1210 (3225)	6.3	22	MCCA000573
MLCC,1210, X5R, 6.3V, 100µF				100	MCCA000574
MLCC,1210, X5R, 10V, 10µF				10 (106)	MCCA000575
MLCC,1210, Y5V, 10V, 22µF	Y5V		10	22 (226)	MCCA000576
MLCC,1210, X5R, 10V, 22µF	X5R				MCCA000577
MLCC,1210, X5R, 10V, 47µF					47 (475)
MLCC,1210, X5R, 16V, 4.7µF	Y5V		16	10 (106)	MCCA000579
MLCC,1210, Y5V, 16V, 10µF					MCCA000580
MLCC,1210, X5R, 16V, 10µF					MCCA000581
MLCC,1210, Y5V, 16V, 22µF	Y5V		22 (226)	MCCA000582	
MLCC,1210, X5R, 16V, 22µF					MCCA000583
MLCC,1210, X5R, 25V, 4.7µF					X5R
MLCC,1210, Y5V, 25V, 10µF	25		10 (106)	MCCA000585	
MLCC,1210, X5R, 25V, 10µF				MCCA000586	
MLCC,1210, Y5V, 50V, 4.7µF	Y5V		50	4.7 (475)	MCCA000587
MLCC,1812, X7R, 100V, 1µF	X7R	1812 (4532)	100	1 (105)	MCCA000589

Dimensions : Inches (Millimetres)