



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													
Size	0603		0805				1206				1210			
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				
Size	1206			1812	
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
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
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	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	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		50	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	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		Y5V	25	2.2 (225)	MCCA000560
MLCC,1206, Y5V, 16V, 2.2µF					3.3 (335)	MCCA000561
MLCC,1206, Y5V, 16V, 3.3µF					4.7 (475)	MCCA000562
MLCC,1206, Y5V, 16V, 4.7µF					10 (106)	MCCA000563
MLCC,1206, Y5V, 16V, 10µF						MCCA000564
MLCC,1206, X7R, 25V, 1µF	X7R		Y5V	25	1 (105)	MCCA000565
MLCC,1206, Y5V, 25V, 1µF						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)
MLCC,1210, Y5V, 16V, 10µF	MCCA000580				
MLCC,1210, X5R, 16V, 10µF	MCCA000581				
MLCC,1210, Y5V, 16V, 22µF	Y5V		22 (226)	22 (226)	MCCA000582
MLCC,1210, X5R, 16V, 22µF	X5R				MCCA000583
MLCC,1210, X5R, 25V, 4.7µF					25
MLCC,1210, Y5V, 25V, 10µF	Y5V	10 (106)	MCCA000585		
MLCC,1210, X5R, 25V, 10µF	X5R		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)