

● C Series Wide range Application

Model Number	Working Voltage (MAX)		Breakdown Voltage	Peak Current	Clamping Voltage (MAX)		Energy Absorption	Typical Capacitance ※
	AC (V _{RMS})	DC (V)			1mA (V)	8/20 μ s (A)		
0402ML050C	2.5	3.3	5(4.0~6.0)	20	1	10	0.05	390
0402ML080C	4	5.5	8(6.4~9.0)	20	1	16	0.05	295
0402ML120C	6	9	12(9.6~14.4)	20	1	20	0.05	190
0402ML150C	8	11	15(12.75~17.25)	20	1	25	0.05	160
0402ML180C	11	14	18(15.3~20.7)	20	1	30	0.05	135
0402ML220C	12	16.5	22(19.8~24.2)	20	1	36	0.05	105
0402ML240C	14	18	24(21.6~27)	20	1	40	0.05	93
0402ML270C	17	22	27(24.3~29.8)	20	1	45	0.05	75
0402ML330C	20	26	33(29.7~36.3)	20	1	54	0.05	54
0402ML390C	25	30	39(35.1~42.9)	20	1	65	0.05	45
0402ML470C	30	38	47(42.3~51.7)	20	1	77	0.05	27

0603ML050C	2.5	3.3	5(4.0~6.0)	30	1	10	0.1	1250
0603ML080C	4	5.5	8(6.4~9.0)	30	1	16	0.1	800
0603ML120C	6	9	12(9.6~14.4)	30	1	20	0.1	680
0603ML150C	8	11	15(12.75~17.25)	30	1	25	0.1	460
0603ML180C	11	14	18(15.3~20.7)	30	1	30	0.1	350
0603ML220C	12	16.5	22(19.8~24.2)	30	1	36	0.1	300
0603ML240C	14	18	24(21.6~27)	30	1	40	0.1	270
0603ML270C	17	22	27(24.3~29.8)	30	1	45	0.1	235
0603ML330C	20	26	33(29.7~36.3)	30	1	54	0.1	200
0603ML390C	25	30	39(35.1~42.9)	30	1	65	0.1	120
0603ML470C	30	38	47(42.3~51.7)	30	1	77	0.1	100

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Model Number	Working Voltage (MAX)		Breakdown Voltage	Peak Current	Clamping Voltage (MAX)		Energy Absorption	Typical Capacitance ※
	AC (V _{RMS})	DC (V)			1mA (V)	8/20 μ s (A)		
0805ML050C	2.5	3.3	5(4.0~6.0)	40	1	10	0.1	2450
0805ML080C	4	5.5	8(6.4~9.0)	80	1	16	0.1	1600
0805ML120C	6	9	12(9.6~14.4)	80	1	20	0.1	1180
0805ML150C	8	11	15(12.75~17.25)	100	1	25	0.1	1050
0805ML180C	11	14	18(15.3~20.7)	100	1	30	0.1	750
0805ML220C	12	16.5	22(19.8~24.2)	100	1	36	0.2	680
0805ML240C	14	18	24(21.6~27)	100	1	39	0.2	550
0805ML270C	17	22	27(24.3~29.8)	100	1	44	0.2	400
0805ML330C	20	26	33(29.7~36.3)	100	1	54	0.3	350
0805ML390C	25	30	39(35.1~42.9)	100	1	65	0.3	310
0805ML470C	30	38	47(42.3~51.7)	100	1	77	0.3	280
0805ML560C	35	45	56(50.4~61.6)	80	1	90	0.3	195
0805ML680C	40	56	68(61.2~74.8)	80	1	110	0.3	145
0805ML820C	50	65	82(73.8~90.2)	60	1	135	0.3	85

1206ML050C	2.5	3.3	5(4.0~6.0)	60	1	10	0.1	3850
1206ML080C	4	5.5	8(6.4~9.0)	100	1	16	0.2	3200
1206ML120C	6	9	12(9.6~14.4)	100	1	20	0.2	2200
1206ML150C	8	11	15(12.75~17.25)	100	1	25	0.2	1300
1206ML180C	11	14	18(15.3~20.7)	100	1	30	0.3	1150
1206ML220C	12	16.5	22(19.8~24.2)	100	1	36	0.3	1000
1206ML240C	14	18	24(21.6~27)	100	1	38	0.3	900
1206ML270C	17	22	27(24.3~29.8)	100	1	44	0.4	840
1206ML330C	20	26	33(29.7~36.3)	100	1	54	0.5	490
1206ML390C	25	30	39(35.1~42.9)	100	1	65	0.6	440
1206ML470C	30	38	47(42.3~51.7)	100	1	77	0.7	400
1206ML560C	35	45	56(50.4~61.6)	100	1	90	0.8	310
1206ML680C	40	56	68(61.2~74.8)	100	1	110	1.0	280
1206ML820C	50	65	82(73.8~90.2)	100	1	135	0.5	240
1206ML101C	60	85	100(90~110)	100	1	165	0.6	160
1206ML111C	70	90	110(99~121)	100	1	180	0.6	120

TO BE CONTINUED

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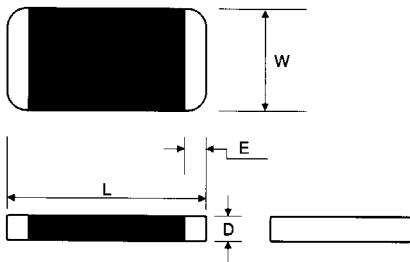
Model Number	Working Voltage (MAX)		Breakdown Voltage	Peak Current	Clamping Voltage (MAX)		Energy Absorption	Typical Capacitance ※
	AC (V _{RMS})	DC (V)			1mA (V)	8/20 μ s (A)		
1210ML080C	4	5.5	8(6.4~9.0)	250	2.5	16	0.4	6200
1210ML120C	6	9	12(9.6~14.4)	250	2.5	20	0.5	4400
1210ML150C	8	11	15(12.75~17.25)	250	2.5	25	0.6	3520
1210ML180C	11	14	18(15.3~20.7)	250	2.5	30	0.7	3260
1210ML220C	12	16.5	22(19.8~24.2)	250	2.5	36	0.8	2100
1210ML240C	14	18	24(21.6~27)	250	2.5	39	0.8	1950
1210ML270C	17	22	27(24.3~29.8)	250	2.5	44	1.0	1720
1210ML330C	20	26	33(29.7~36.3)	250	2.5	54	1.2	1090
1210ML390C	25	30	39(35.1~42.9)	250	2.5	65	1.4	920
1210ML470C	30	38	47(42.3~51.7)	250	2.5	77	1.6	780
1210ML560C	35	45	56(50.4~61.6)	250	2.5	90	2.0	470
1210ML680C	40	56	68(61.2~74.8)	250	2.5	110	2.3	390
1210ML820C	50	65	82(73.8~90.2)	250	2.5	135	1.2	320
1210ML101C	60	85	100(90~110)	250	2.5	165	1.4	220
1210ML111C	70	90	110(99~121)	250	2.5	180	1.4	200

1812ML120C	6	9	8(6.4~9.0)	500	5	20	0.9	9150
1812ML150C	8	11	12(9.6~14.4)	500	5	25	1.2	7320
1812ML180C	11	14	15(12.75~17.25)	500	5	30	1.4	6100
1812ML220C	12	16.5	18(15.3~20.7)	500	5	36	1.6	4300
1812ML240C	14	18	22(19.8~24.2)	500	5	39	1.7	3930
1812ML270C	17	22	24(21.6~27)	500	5	44	2.0	3500
1812ML330C	20	26	27(24.3~29.8)	500	5	54	2.5	2900
1812ML390C	25	30	33(29.7~36.3)	500	5	65	2.9	2500
1812ML470C	30	38	39(35.1~42.9)	500	5	77	3.5	2200
1812ML560C	35	45	47(42.3~51.7)	500	5	90	4.2	1950
1812ML680C	40	56	56(50.4~61.6)	500	5	110	4.8	1650
1812ML820C	50	65	68(61.2~74.8)	400	5	135	4.5	1060
1812ML101C	60	85	82(73.8~90.2)	400	5	165	5.8	870
1812ML111C	70	90	100(90~110)	400	5	180	5.8	790
1812ML151C	95	127	110(99~121)	300	5	248	5.8	420

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Model Number	Working Voltage (MAX)		Breakdown Voltage	Peak Current	Clamping Voltage (MAX)		Energy Absorption	Typical Capacitance ※
	AC (V _{RMS})	DC (V)			(A)	(V)		
2220ML120C	6	9	12(9.6~14.4)	1000	10	20	1.9	36500
2220ML150C	8	11	15(12.75~17.25)	1000	10	25	2.3	18400
2220ML180C	11	14	18(15.3~20.7)	1000	10	30	2.7	15300
2220ML220C	12	16.5	22(19.8~24.2)	1000	10	36	2.9	12500
2220ML240C	14	18	24(21.6~27)	1000	10	38	3.1	11800
2220ML270C	17	22	27(24.3~29.8)	1000	10	44	3.8	10400
2220ML330C	20	26	33(29.7~36.3)	1000	10	54	4.3	8900
2220ML390C	25	30	39(35.1~42.9)	1000	10	65	5.5	7500
2220ML470C	30	38	47(42.3~51.7)	1000	10	77	6.3	4600
2220ML560C	35	45	56(50.4~61.6)	1000	10	90	7.7	4000
2220ML680C	40	56	68(61.2~74.8)	1000	10	110	8.8	3500
2220ML820C	50	65	82(73.8~90.2)	800	10	135	5.6	2850
2220ML101C	60	85	100(90~110)	800	10	165	6.8	1800
2220ML111C	70	90	110(99~121)	800	10	180	6.8	1500



Type	L mm	W mm	D Mm	E Mm
0402	1.0±0.10	0.5±0.10	0.6max.	0.25+0.1/-0.1
0603	1.6±0.15	0.8±0.10	0.9max.	0.3+0.1/-0.1
0805	2.0±0.20	1.25±0.15	1.2max.	0.3+0.1/-0.1
1206	3.2±0.20	1.6±0.15	1.5max.	0.5+0.2/-0.2
1210	3.2±0.20	2.5±0.20	1.5max.	0.5+0.2/-0.2
1812	4.5±0.20	3.2±0.20	2.0max.	0.5+0.3/-0.1
2220	5.7±0.20	5.0±0.20	2.5max.	0.5+0.3/-0.1

NOTE:

1. Tolerance of breakdown Voltage: 15~18V=±15%,22~56V=±10%
2. Tolerance of capacitance Voltage: ±20%
3. Typical leakage at 25⁰C<50 μA, maximum leakage 100 μA
4. In order to satisfy the applications of customer in various fields ,the capacitance range

※ Can be designed during manufacturing according to the request , please contact our sales department if needed.