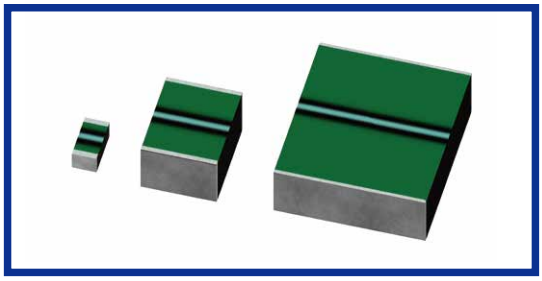
MU SERIES UPGRADE

Standard

- Surface-mounted device.
- Non-polar capacitor.
- Lead free reflow soldering is available.
- Flow soldering is available.

RoHS compliance



◆SPECIFICATIONS

Items	Characteristics		
Category Temperature Range	−55～+125℃		
Rated Voltage Range	16～63Vdc	100Vdc	200Vdc
Capacitance Range	0.0001～22μF(101～226)	0.001～0.1μF(102～104)	0.0001～0.1μF(101～104)
Capacitance Tolerance	±10%(K), ±20%(M)		±20%(M)
Dissipation Factor	1.5% or less(1kHz±20%, 5Vrms or less)		
Voltage Proof	Nothing abnormal shall be found, when applying 150% of the rated voltage for 1minute or 175% of the rated voltage for 1 second to 5 seconds.		
Insulation Resistance	C≦0.1μF : 3000MΩ or more (After 1 minute application of rated voltage) C>0.1μF : 300MΩ・μF or more (After 1 minute application of rated voltage)	1000MΩ or more (After 1 minute application of rated voltage)	

◆PART NUMBER

□□□	MU	□□□	□	□□□	□□	□□□□
Rated Voltage	Series	Capacitance	Capacitance Tolerance	Option	TP code	Chip Size

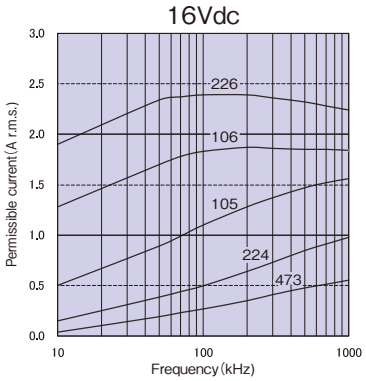
Code	Rated Voltage
16	16Vdc
25	25Vdc
35	35Vdc
50	50Vdc
63	63Vdc
100	100Vdc
200	200Vdc

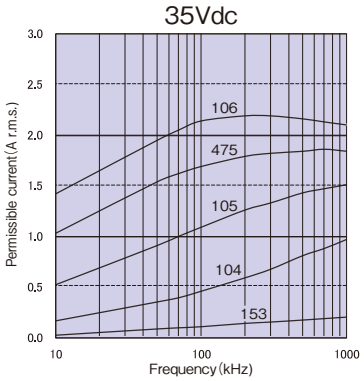
Code	Capacitance
101	0.0001μF
682	0.0068μF
153	0.015μF
224	0.22μF
335	3.3μF
226	22μF

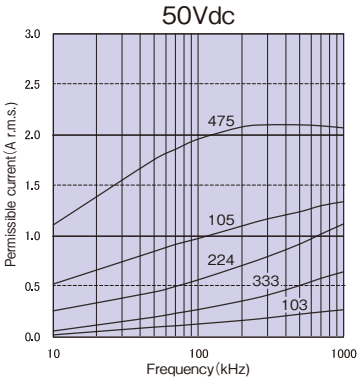
Code	Tolerance
K	±10%
M	±20%

Code	Chip Size
1608	1.6×0.8mm
2012	2.0×1.25mm
3216	3.2×1.6mm
3225	3.2×2.5mm
4532	4.5×3.2mm
5750	5.7×5.0mm
3245	3.2×4.5mm

◆PERMISSIBLE CURRENT FOR FREQUENCY







◆STANDARD SIZE

□ : Tolerance

Rated Voltage (Vdc)	Capacitance (μF)	Size L (mm)	Size W (mm)	Size H (mm)	Part No.
16	0.047	1.6	0.8	0.65	16MU473□Y11608
	0.15	2.0	1.25	1.0	16MU154□Z22012
	0.22	2.0	1.25	1.0	16MU224□Z22012
	1.0	3.2	1.6	1.4	16MU105□A23216
	1.5	3.2	1.6	1.4	16MU155□A23216
	2.2	3.2	2.5	1.8	16MU225□B23225
	3.3	3.2	2.5	2.0	16MU335□B33225
	4.7	4.5	3.2	1.4	16MU475□C14532
	6.8	4.5	3.2	1.8	16MU685□C24532
	10	4.5	3.2	2.6	16MU106□C44532
	15	5.7	5.0	1.8	16MU156□D15750
	22	5.7	5.0	2.6	16MU226□D35750
25	0.033	1.6	0.8	0.65	25MU333□Y11608
	0.10	2.0	1.25	1.0	25MU104□Z22012
	0.15	2.0	1.25	1.0	25MU154□Z22012
	0.68	3.2	1.6	1.4	25MU684□A23216
	1.0	3.2	1.6	1.4	25MU105□A23216
	1.5	3.2	2.5	2.0	25MU155□B33225
	2.2	3.2	2.5	1.8	25MU225□B23225
	3.3	4.5	3.2	1.4	25MU335□C14532
	4.7	4.5	3.2	1.8	25MU475□C24532
	6.8	4.5	3.2	2.6	25MU685□C44532
	10	5.7	5.0	1.8	25MU106□D15750
	15	5.7	5.0	2.6	25MU156□D35750
35	0.015	1.6	0.8	0.65	35MU153□Y11608
	0.022	1.6	0.8	0.65	35MU223□Y11608
	0.047	2.0	1.25	1.0	35MU473□Z22012
	0.068	2.0	1.25	0.8	35MU683□Z12012
	0.10	2.0	1.25	1.0	35MU104□Z22012
	0.47	3.2	1.6	1.0	35MU474□A13216
	0.68	3.2	1.6	1.4	35MU684□A23216
	1.0	3.2	2.5	1.4	35MU105□B13225
	1.5	3.2	2.5	2.0	35MU155□B33225
	2.2	4.5	3.2	1.4	35MU225□C14532
	3.3	4.5	3.2	1.8	35MU335□C24532
	4.7	4.5	3.2	2.6	35MU475□C44532
	6.8	5.7	5.0	1.8	35MU685□D15750
	10	5.7	5.0	2.6	35MU106□D35750
50	0.00010	1.6	0.8	0.65	50MU101□Y11608
	0.00015	1.6	0.8	0.65	50MU151□Y11608
	0.00022	1.6	0.8	0.65	50MU221□Y11608
	0.00033	1.6	0.8	0.65	50MU331□Y11608
	0.00047	1.6	0.8	0.65	50MU471□Y11608
	0.00068	1.6	0.8	0.65	50MU681□Y11608
	0.0010	1.6	0.8	0.65	50MU102□Y11608
	0.0015	1.6	0.8	0.65	50MU152□Y11608
	0.0022	1.6	0.8	0.65	50MU222□Y11608
	0.0033	1.6	0.8	0.65	50MU332□Y11608
	0.0047	1.6	0.8	0.65	50MU472□Y11608
	0.0068	1.6	0.8	0.65	50MU682□Y11608
	0.010	1.6	0.8	0.65	50MU103□Y11608
	0.033	2.0	1.25	1.0	50MU333□Z22012
	0.047	2.0	1.25	1.0	50MU473□Z22012
	0.10	3.2	1.6	1.0	50MU104□A13216
	0.15	3.2	1.6	1.0	50MU154□A13216
	0.22	3.2	1.6	1.0	50MU224□A13216
	0.33	3.2	1.6	1.4	50MU334□A23216
	0.47	3.2	2.5	1.4	50MU474□B13225
	0.68	3.2	2.5	1.8	50MU684□B23225
	1.0	4.5	3.2	1.4	50MU105□C14532
	1.5	4.5	3.2	1.8	50MU155□C24532
	2.2	4.5	3.2	2.6	50MU225□C44532
	3.3	5.7	5.0	1.8	50MU335□D15750
	4.7	5.7	5.0	2.6	50MU475□D35750

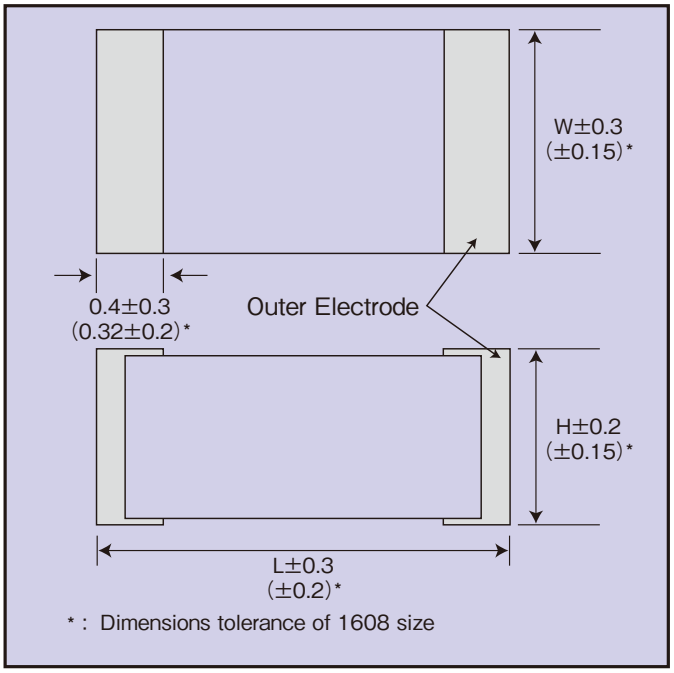
Rated Voltage (Vdc)	Capacitance (μF)	Size L (mm)	Size W (mm)	Size H (mm)	Part No.
63	0.00010	2.0	1.25	0.8	63MU101□Z12012
	0.00015	2.0	1.25	0.8	63MU151□Z12012
	0.00022	2.0	1.25	0.8	63MU221□Z12012
	0.00033	2.0	1.25	0.8	63MU331□Z12012
	0.00047	2.0	1.25	0.8	63MU471□Z12012
	0.00068	2.0	1.25	0.8	63MU681□Z12012
	0.0010	2.0	1.25	0.8	63MU102□Z12012
	0.0015	2.0	1.25	0.8	63MU152□Z12012
	0.0022	2.0	1.25	0.8	63MU222□Z12012
	0.0033	2.0	1.25	0.8	63MU332□Z12012
	0.0047	2.0	1.25	0.8	63MU472□Z12012
	0.0068	2.0	1.25	0.8	63MU682□Z12012
	0.010	2.0	1.25	0.8	63MU103□Z12012
	0.015	2.0	1.25	0.8	63MU153□Z12012
	0.022	2.0	1.25	0.8	63MU223□Z12012
	0.033	2.0	1.25	1.0	63MU333□Z22012
	0.047	3.2	1.6	1.0	63MU473□A13216
	0.068	3.2	1.6	1.0	63MU683□A13216
	0.10	3.2	1.6	1.0	63MU104□A13216
	0.15	3.2	1.6	1.0	63MU154□A13216
	0.22	3.2	1.6	1.4	63MU224□A23216
	0.33	3.2	2.5	1.4	63MU334□B13225
	0.47	3.2	2.5	1.8	63MU474□B23225
	0.68	4.5	3.2	1.4	63MU684□C14532
	1.0	4.5	3.2	1.8	63MU105□C24532
	1.5	4.5	3.2	2.6	63MU155□C44532
	2.2	5.7	5.0	1.8	63MU225□D15750
	3.3	5.7	5.0	2.6	63MU335□D35750
100	0.0010	3.2	1.6	1.0	100MU102□A13216
	0.0015	3.2	1.6	1.0	100MU152□A13216
	0.0022	3.2	1.6	1.0	100MU222□A13216
	0.0033	3.2	1.6	1.0	100MU332□A13216
	0.0047	3.2	1.6	1.0	100MU472□A13216
	0.0068	3.2	1.6	1.0	100MU682□A13216
	0.010	3.2	1.6	1.0	100MU103□A13216
	0.015	3.2	1.6	1.0	100MU153□A13216
	0.022	3.2	1.6	1.0	100MU223□A13216
	0.033	3.2	1.6	1.0	100MU333□A13216
	0.047	3.2	1.6	1.4	100MU473□A23216
	0.068	3.2	2.5	1.4	100MU683□B13225
	0.10	3.2	2.5	1.8	100MU104□B23225
200	0.00010	3.2	1.6	1.0	200MU101MA13216
	0.0010	3.2	1.6	1.0	200MU102MA13216
	0.010	3.2	1.6	1.4	200MU103MA23216
	0.10	3.2	4.5	2.6	200MU104MC43245

Size Code Conversion

mm	inch
1608	0603
2012	0805
3216	1206
3225	1210
4532	1812
5750	2220
3245	1218

◆DIMENSIONS

(mm)



Our website offers the SPICE model (netlist) of PMLCAP® as the data for simulations. Please make use of various circuit design.

Mouser Electronics

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Rubycon:

100MU682KA13216 50MU682KY11608 50MU684MB23225 63MU104KA13216 63MU152MZ12012 63MU223KZ12012 63MU474MB23225 35MU105KB13225 35MU106KD35750 35MU683KZ12012 35MU684KA23216 50MU155KC24532 50MU471KY11608 100MU473MA23216 16MU154KZ22012 16MU225MB23225 16MU475KC14532 25MU154MZ22012 25MU155MB33225 63MU333MZ22012 63MU334MB13225 63MU682MZ12012 63MU683KA13216 63MU683MA13216 100MU332KA13216 63MU101MZ12012 63MU102MZ12012 63MU154MA13216 63MU155KC44532 63MU221KZ12012 63MU333KZ22012 25MU106MD15750 25MU684MA23216 35MU223KY11608 50MU105MC14532 50MU152KY11608 50MU334KA23216 63MU473KA13216 100MU102KA13216 100MU103MA13216 100MU333MA13216 16MU105KA23216 25MU106KD15750 50MU474MB13225 50MU475KD35750 63MU105MC24532 63MU151MZ12012 63MU223MZ12012 63MU225KD15750 63MU334KB13225 35MU104KZ22012 35MU104MZ22012 35MU473MZ22012 35MU475KC44532 50MU473MZ22012 63MU684KC14532 63MU101KZ12012 63MU155MC44532 63MU682KZ12012 63MU102KZ12012 63MU332MZ12012 50MU335KD15750 63MU222KZ12012 63MU225MD15750 63MU335KD35750 63MU471KZ12012 63MU681MZ12012 50MU105KC14532 50MU151KY11608 50MU334MA23216 16MU105MA23216 50MU154KA13216 50MU333MZ22012 25MU105MA23216 25MU685MC44532 35MU153KY11608 35MU155KB33225 35MU684MA23216 35MU685MD15750 63MU331MZ12012 16MU226KD35750 16MU226MD35750 16MU335KB33225 16MU335MB33225 16MU473KY11608 50MU225MC44532 50MU332KY11608 50MU221KY11608 50MU473KZ22012 63MU103KZ12012 63MU153MZ12012 25MU333KY11608 25MU335KC14532 35MU225MC14532 35MU335MC24532 50MU103KY11608 50MU104MA13216 63MU684MC14532 16MU155KA23216 16MU156KD15750