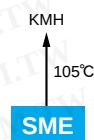


SME Series

- Endurance with ripple current : 2,000 hours at 85°C
- RoHS Compliant



◆SPECIFICATIONS

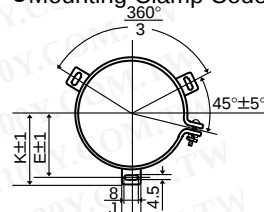
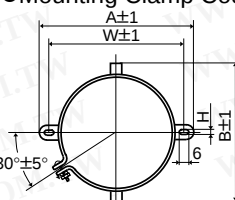
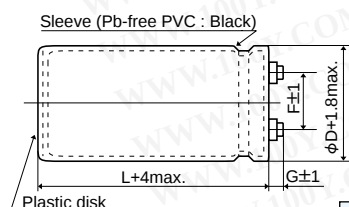
Items	Characteristics						
Category							
Temperature Range	-40 to +85°C (10 to 100V _{dc}) -25 to +85°C (160 to 250V _{dc})						
Rated Voltage Range	10 to 250V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.02CV or 5mA, whichever is smaller. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 5 minutes)						
Dissipation Factor (tanδ)	Shall not exceed the values shown in the STANDARD RATINGS (at 20°C, 120Hz)						
Low Temperature Characteristics	Capacitance change $C(-25^{\circ}\text{C})/C(+20^{\circ}\text{C}) \geq 0.7$ (at 120Hz)						
Insulation Resistance	When measured between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case by using an insulation resistance meter of 500V _{dc} , the insulation resistance shall not be less than 100MΩ.						
Insulation Withstanding Voltage	When a voltage of 2,000V _{ac} is applied for 1 minute between the terminals that are connected to each other and to the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 85°C. <table border="1"> <tr> <td>Capacitance change</td><td>≤±20% of the initial value</td></tr> <tr> <td>D.F. (tanδ)</td><td>≤200% of the initial specified value</td></tr> <tr> <td>Leakage current</td><td>≤The initial specified value</td></tr> </table>	Capacitance change	≤±20% of the initial value	D.F. (tanδ)	≤200% of the initial specified value	Leakage current	≤The initial specified value
Capacitance change	≤±20% of the initial value						
D.F. (tanδ)	≤200% of the initial specified value						
Leakage current	≤The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4. <table border="1"> <tr> <td>Capacitance change</td><td>≤±20% of the initial value</td></tr> <tr> <td>D.F. (tanδ)</td><td>≤150% of the initial specified value</td></tr> <tr> <td>Leakage current</td><td>≤The initial specified value</td></tr> </table>	Capacitance change	≤±20% of the initial value	D.F. (tanδ)	≤150% of the initial specified value	Leakage current	≤The initial specified value
Capacitance change	≤±20% of the initial value						
D.F. (tanδ)	≤150% of the initial specified value						
Leakage current	≤The initial specified value						

◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code : LG

●Mounting Clamp Code : B

●Mounting Clamp Code : C



φD	A	B	W	H	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76	104.5	90.0	93.5	4.5	31.5

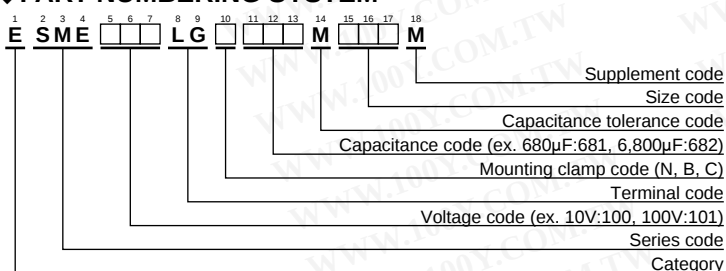
φD	E	K	J	F
50	32.5	37.0	14.0	22.4
63.5	38.1	43.5	14.0	28.0
76	44.5	50.0	14.0	31.5
89	50.8	56.5	16.0	31.5

<Screw specifications>
 Plus hexagon-headed screw:
 M5×0.8×10
 Maximum screw tightening torque:
 3.23Nm

φ35 to φ63.5 : G=6
 φ76 & φ89 : G=5

* The screw and the mounting clamp are separately supplied and not attached to the product.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (screw-mount terminal type)"

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Rated voltage (V _{dc})	Case diameter (mm)	Frequency (Hz)					
		50	120	300	1k	10k	50k
10 to 50	φ35 to φ89	0.95	1.00	1.03	1.05	1.09	1.12
	φ35	0.90	1.00	1.06	1.10	1.18	1.22
63 & 80	φ50 to φ89	0.95	1.00	1.03	1.05	1.09	1.12
	φ35	0.82	1.00	1.12	1.22	1.30	1.33
100	φ50	0.90	1.00	1.06	1.10	1.18	1.22
	φ63.5 to φ89	0.95	1.00	1.03	1.05	1.09	1.12
160 to 250	φ35	0.80	1.00	1.19	1.34	1.46	1.52
	φ50 & φ63.5	0.81	1.00	1.14	1.26	1.36	1.41
	φ76 & φ89	0.82	1.00	1.12	1.22	1.30	1.33

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.

When long life performance is required in actual use, the rms ripple current has to be reduced.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



LARGE CAPACITANCE ALUMINUM ELECTROLYTIC CAPACITORS Standard screw terminals, 85°C

SMESeries

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
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[Http://www.100y.com.tw](http://www.100y.com.tw)

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85°C,120Hz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tanδ	Rated ripple current (Arms/ 85°C,120Hz)	Part No.
10	39,000	35×50	0.60	4.70	ESME100LGB393MA50M	63	47,000	63.5×100	0.40	10.2	ESME630LGC473MDA0M
	82,000	35×80	0.60	7.40	ESME100LGB823MA80M		68,000	63.5×120	0.40	13.3	ESME630LGC683MDC0M
	100,000	35×100	0.70	8.00	ESME100LGB104MAA0M		100,000	76×120	0.45	17.1	ESME630LGC104MEC0M
	120,000	35×120	0.70	9.40	ESME100LGB124MAC0M		120,000	76×140	0.50	19.0	ESME630LGC124MEE0M
	150,000	50×80	0.90	9.80	ESME100LGC154MC80M		150,000	89×140	0.55	22.0	ESME630LGC154MFE0M
	220,000	50×100	1.00	12.1	ESME100LGC224MCA0M	80	3,300	35×50	0.15	2.50	ESME800LGB332MA50M
	270,000	50×120	1.20	13.6	ESME100LGC274MCC0M		6,800	35×80	0.20	3.70	ESME800LGB682MA80M
	390,000	63.5×100	1.50	15.3	ESME100LGC394MDA0M		10,000	35×100	0.20	4.90	ESME800LGB103MAA0M
	470,000	63.5×120	2.00	16.0	ESME100LGC474MDC0M		12,000	35×120	0.20	5.40	ESME800LGB123MAC0M
	560,000	76×100	2.50	17.3	ESME100LGC564MEA0M		15,000	50×80	0.25	6.00	ESME800LGC153MC80M
	680,000	76×120	3.00	18.7	ESME100LGC684MEC0M		22,000	50×100	0.30	7.10	ESME800LGC223MCA0M
16	27,000	35×50	0.45	4.20	ESME160LGB273MA50M		27,000	50×120	0.30	8.60	ESME800LGB103MCA0M
	56,000	35×80	0.60	6.50	ESME160LGB563MA80M		33,000	63.5×100	0.35	9.30	ESME800LGC333MDA0M
	82,000	35×100	0.70	8.00	ESME160LGB823MAA0M		47,000	63.5×120	0.35	12.0	ESME800LGC473MDC0M
	100,000	35×120	0.70	9.60	ESME160LGB104MAC0M		68,000	76×120	0.35	15.4	ESME800LGC683MEC0M
	120,000	50×80	0.80	9.60	ESME160LGC124MC80M		82,000	76×140	0.35	18.1	ESME800LGC823MEE0M
	150,000	50×100	0.90	11.2	ESME160LGC154MCA0M		100,000	89×140	0.40	21.0	ESME800LGC104MFE0M
	220,000	50×120	1.00	14.2	ESME160LGC224MCC0M	100	2,200	35×50	0.10	2.50	ESME101LGB222MA50M
	270,000	63.5×100	1.20	15.3	ESME160LGC274MDA0M		4,700	35×80	0.15	3.40	ESME101LGB472MA80M
	330,000	63.5×120	1.30	17.1	ESME160LGC334MDC0M		6,800	35×100	0.15	4.20	ESME101LGB682MAA0M
	390,000	76×100	1.60	18.0	ESME160LGC394MEA0M		8,200	35×120	0.15	5.00	ESME101LGB822MAC0M
	470,000	76×120	1.80	19.3	ESME160LGC474MEC0M		10,000	50×80	0.20	5.20	ESME101LGC103MC80M
	560,000	76×140	2.00	20.7	ESME160LGC564MEE0M		18,000	50×120	0.20	8.10	ESME101LGC183MCC0M
25	18,000	35×50	0.35	4.00	ESME250LGB183MA50M		22,000	63.5×100	0.25	8.60	ESME101LGC223MDA0M
	39,000	35×80	0.40	6.20	ESME250LGB393MA80M		27,000	63.5×120	0.25	10.3	ESME101LGC273MDC0M
	47,000	35×100	0.40	7.40	ESME250LGB473MAA0M		33,000	76×100	0.25	11.1	ESME101LGC333MEA0M
	56,000	35×120	0.45	8.30	ESME250LGB563MAC0M		39,000	76×120	0.25	12.4	ESME101LGC393MEC0M
	82,000	50×80	0.50	9.70	ESME250LGC823MC80M		47,000	76×140	0.25	14.3	ESME101LGC473MEE0M
	100,000	50×100	0.60	10.8	ESME250LGC104MCA0M		68,000	89×140	0.30	18.0	ESME101LGC683MFE0M
	120,000	50×120	0.60	12.8	ESME250LGC124MCC0M	160	1,200	35×50	0.15	2.00	ESME161LGB122MA50M
	180,000	63.5×100	0.75	14.7	ESME250LGC184MDA0M		2,200	35×80	0.15	3.40	ESME161LGB222MA80M
	220,000	63.5×120	0.80	16.8	ESME250LGC224MDC0M		2,700	35×100	0.15	3.70	ESME161LGB272MAA0M
	270,000	76×100	0.90	18.3	ESME250LGC274MEA0M		3,300	35×120	0.15	4.50	ESME161LGB332MAC0M
	330,000	76×120	1.00	20.7	ESME250LGC334MEC0M		4,700	50×80	0.20	5.60	ESME161LGC472MC80M
	390,000	76×140	1.20	22.1	ESME250LGC394MEE0M		6,800	50×100	0.20	7.50	ESME161LGC682MCA0M
35	560,000	89×140	1.50	25.8	ESME250LGC564MFE0M		8,200	50×120	0.20	8.10	ESME161LGC822MCC0M
	15,000	35×50	0.30	3.90	ESME350LGB153MA50M		10,000	63.5×100	0.20	9.80	ESME161LGC103MDA0M
	33,000	35×80	0.40	6.00	ESME350LGB333MA80M		12,000	63.5×120	0.20	10.8	ESME161LGC123MDC0M
	39,000	35×100	0.40	7.00	ESME350LGB393MAA0M		15,000	76×100	0.20	12.7	ESME161LGC153MEA0M
	47,000	35×120	0.45	8.00	ESME350LGB473MAC0M		18,000	76×120	0.20	14.0	ESME161LGC183MEC0M
	68,000	50×80	0.50	9.00	ESME350LGC683MC80M		22,000	76×140	0.20	16.6	ESME161LGC223MEE0M
	82,000	50×100	0.55	10.3	ESME350LGC823MCA0M		33,000	89×140	0.25	18.9	ESME161LGC333MFE0M
	120,000	50×120	0.60	12.8	ESME350LGC124MCC0M	200	820	35×50	0.15	1.60	ESME201LGB821MA50M
	150,000	63.5×100	0.70	14.0	ESME350LGC154MDA0M		1,800	35×80	0.15	2.80	ESME201LGB182MA80M
	180,000	63.5×120	0.70	16.6	ESME350LGC184MDC0M		2,200	35×100	0.15	3.60	ESME201LGB222MAA0M
	220,000	76×100	0.75	17.3	ESME350LGC224MEA0M		2,700	35×120	0.15	4.00	ESME201LGB272MAC0M
	270,000	76×120	0.80	19.8	ESME350LGC274MEC0M		3,300	50×80	0.15	4.50	ESME201LGC332MC80M
	330,000	76×140	0.90	22.5	ESME350LGC334MEE0M		4,700	50×100	0.15	7.10	ESME201LGC472MCA0M
50	470,000	89×140	1.00	28.3	ESME350LGC474MFE0M		5,600	50×120	0.15	8.20	ESME201LGC562MCC0M
	10,000	35×50	0.25	4.10	ESME500LGB103MA50M		8,200	63.5×100	0.20	10.0	ESME201LGC822MDA0M
	18,000	35×80	0.25	5.20	ESME500LGB183MA80M		10,000	63.5×120	0.20	11.0	ESME201LGC103MDC0M
	22,000	35×100	0.30	5.90	ESME500LGB223MAA0M		12,000	76×100	0.20	11.5	ESME201LGC123MEA0M
	27,000	35×120	0.35	6.60	ESME500LGB273MAC0M		15,000	76×120	0.20	12.8	ESME201LGC153MEC0M
	39,000	50×80	0.40	7.40	ESME500LGC393MC80M		18,000	76×140	0.20	15.0	ESME201LGC183MEE0M
	56,000	50×100	0.40	9.80	ESME500LGC563MCA0M		22,000	89×140	0.25	15.6	ESME201LGC223MFE0M
	68,000	50×120	0.45	11.1	ESME500LGC683MCC0M	250	560	35×50	0.15	1.30	ESME251LGB561MA50M
	82,000	63.5×100	0.50	12.2	ESME500LGC823MDA0M		1,200	35×80	0.15	2.30	ESME251LGB122MA80M
	120,000	63.5×120	0.50	16.0	ESME500LGC124MDC0M		1,500	35×100	0.15	3.00	ESME251LGB152MAA0M
	150,000	76×120	0.60	18.1	ESME500LGC154MEC0M		1,800	35×120	0.15	3.30	ESME251LGB182MAC0M
	180,000	76×140	0.70	19.5	ESME500LGC184MEE0M		2,200	50×80	0.15	3.70	ESME251LGC222MC80M
	270,000	89×140	0.80	24.6	ESME500LGC274MFE0M		3,300	50×100	0.15	5.10	ESME251LGC332MCA0M
63	5,600	35×50	0.20	3.00	ESME630LGB562MA50M		3,900	50×120	0.15	5.90	ESME251LGC392MCC0M
	10,000	35×80	0.25	4.00	ESME630LGB103MA80M		4,700	63.5×100	0.20	6.90	ESME251LGC472MDA0M
	15,000	35×100	0.25	5.30	ESME630LGB153MAA0M		6,800	63.5×120	0.20	8.70	ESME251LGC682MDC0M
	18,000	35×120	0.25	6.20	ESME630LGB183MAC0M		10,000	76×120	0.20	11.1	ESME251LGC103MEC0M
	22,000	50×80	0.30	6.50	ESME630LGC223MC80M		12,000	76×140	0.20	13.0	ESME251LGC123MEE0M
	33,000	50×100	0.35	8.10	ESME630LGC333MCA0M		15,000	89×140	0.20	14.9	ESME251LGC153MFE0M
	39,000	50×120	0.35	9.60	ESME630LGC393MCC0M						