

● Endurance with ripple current : 2,000 hours at 85°C

● RoHS2 Compliant



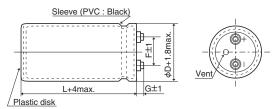


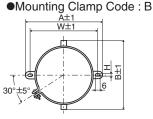
SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40 to +85°C (10 to 100V	dc)						
Rated Voltage Range	10 to 100V _{dc}							
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)				
Leakage Current	I=0.02CV or 5mA, whiche Where, I: Max. leakage	ever is smaller. current (μΑ), C : Nominal capacitance (μΓ	r), V : Rated voltage (V)	(at 20°C after 5 minutes)				
Dissipation Factor (tan δ)	Shall not exceed the values shown in the STANDARD RATINGS (at 20°C, 120Hz)							
Low Temperature Characteristics	Capacitance change C(Capacitance change $C(-25^{\circ}C)/C(+20^{\circ}C) \ge 0.7$ (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 $500V_{40}$, the insulation resistance shall not be less than $100M\Omega$.							
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		ns shall be satisfied when the capacitors the peak voltage shall not exceed the rate $\leq \pm 20\%$ of the initial value $\leq 200\%$ of the initial specified value $\leq 100\%$ initial specified value		DC voltage with the rated				
Shelf Life		s shall be satisfied when the capacitors are measurement, the capacitor shall be precestable ≤±20% of the initial value ≤150% of the initial specified value ≤The initial specified value						

◆DIMENSIONS (Screw-Mount) [mm]

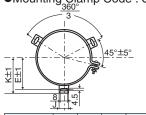
●Terminal Code: LG





ϕD	Α	В	w	Н	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
76.2	104.5	90.0	93.5	4.5	31.5

■Mounting Clamp Code : C



φD	Е	K	J	F	
50	32.5	37.0	14.0	22.4	
63.5	38.1	43.5	14.0	28.0	
76.2	44.5	50.0	14.0	31.5	
89	50.8	56.5	16.0	31.5	

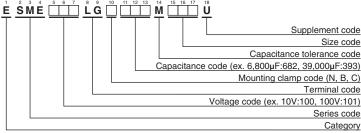
φ76.2 & φ89 : G=5 <Screw specifcations>

 ϕ 35 to ϕ 63.5 : G=6

Plus hexagon-headed screw :M5×0.8×10 Maximum screw tightening torque :3.23Nm

* 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)"



SMESeries

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.
	39,000	35 × 50	0.60	4.70	ESME100LGB393MA50U		10,000	35 × 50	0.25	4.10	ESME500LGB103MA50U
	82,000	35×80	0.60	7.40	ESME100LGB823MA80U		18,000	35 × 80	0.25	5.20	ESME500LGB183MA80U
	100,000	35×100	0.70	8.00	ESME100LGB104MAA0U		22,000	35 × 100	0.30	5.90	ESME500LGB223MAA0U
	120,000	35 × 120	0.70	9.40	ESME100LGB124MAC0U		27,000	35 × 120	0.35	6.60	ESME500LGB273MAC0U
	150,000	50 × 80	0.90	9.80	ESME100LGC154MC80U		39,000	50 × 80	0.40	7.40	ESME500LGC393MC80U
10	220,000	50 × 100	1.00	12.1	ESME100LGC224MCA0U	50	56,000	50 × 100	0.40	9.80	ESME500LGC563MCA0U
	270,000	50 × 120	1.20	13.6	ESME100LGC274MCC0U	50	68,000	50 × 120	0.45	11.1	ESME500LGC683MCC0U
	390,000	63.5 × 100	1.50	15.3	ESME100LGC394MDA0U		82,000	63.5 × 100	0.50	12.2	ESME500LGC823MDA0U
	470,000	63.5 × 120	2.00	16.0	ESME100LGC474MDC0U		120,000	63.5 × 120	0.50	16.0	ESME500LGC124MDC0U
	560,000	76.2 × 100	2.50	17.3	ESME100LGC564MEA0U		150,000	76.2 × 120	0.60	18.1	ESME500LGC154MEC0U
	680,000	76.2 × 120	3.00	18.7	ESME100LGC684MEC0U		180,000	76.2 × 140	0.70	19.5	ESME500LGC184MEE0U
	27,000	35 × 50	0.45	4.20	ESME160LGB273MA50U		270,000	89 × 140	0.80	24.6	ESME500LGC274MFE0U
	56,000	35 × 80	0.60	6.50	ESME160LGB563MA80U		5,600	35 × 50	0.20	3.00	ESME630LGB562MA50U
	82,000	35 × 100	0.70	8.00	ESME160LGB823MAA0U		10,000	35 × 80	0.25	4.00	ESME630LGB103MA80U
	100,000	35 × 120	0.70	9.60	ESME160LGB104MAC0U		15,000	35 × 100	0.25	5.30	ESME630LGB153MAA0U
	120,000	50 × 80	0.80	9.60	ESME160LGC124MC80U		18,000	35 × 120	0.25	6.20	ESME630LGB183MAC0U
	150,000	50 × 100	0.90	11.2	ESME160LGC154MCA0U		22,000	50 × 80	0.30	6.50	ESME630LGC223MC80U
16	220.000	50 × 120	1.00	14.2	ESME160LGC224MCC0U		33,000	50 × 100	0.35	8.10	ESME630LGC333MCA0U
	- /	63.5 × 100	1.20	15.3	ESME160LGC274MDA0U	63	39,000	50 × 120	0.35	9.60	ESME630LGC393MCC0U
		63.5 × 120	1.30	17.1	ESME160LGC334MDC0U			63.5 × 100	0.40	10.2	ESME630LGC473MDA0U
		76.2 × 100	1.60	18.0	ESME160LGC394MEA0U			63.5 × 120	0.40	13.3	ESME630LGC683MDC0U
	470.000	76.2 × 120	1.80	19.3	ESME160LGC474MEC0U		100,000		0.45	17.1	ESME630LGC104MEC0U
	560,000	76.2 × 140	2.00	20.7	ESME160LGC564MEE0U		120,000		0.50	19.0	ESME630LGC124MEE0U
	18,000	35 × 50	0.35	4.00	ESME250LGB183MA50U		150,000	89 × 140	0.55	22.0	ESME630LGC154MFE0U
	39,000	35 × 80	0.40	6.20	ESME250LGB393MA80U		3,300	35 × 50	0.15	2.50	ESME800LGB332MA50U
	47.000	35 × 100	0.40	7.40	ESME250LGB473MAA0U		6.800	35 × 80	0.20	3.70	ESME800LGB682MA80U
	56,000	35 × 120	0.45	8.30	ESME250LGB563MAC0U		10,000	35 × 100	0.20	4.90	ESME800LGB103MAA0U
	82,000	50 × 80	0.50	9.70	ESME250LGC823MC80U		12,000	35 × 120	0.20	5.40	ESME800LGB123MAC0U
	100,000	50 × 100	0.60	10.8	ESME250LGC104MCA0U		15,000		0.25	6.00	ESME800LGC153MC80U
25	120,000	50 × 120	0.60	12.8	ESME250LGC124MCC0U		22,000	50 × 100	0.30	7.10	ESME800LGC223MCA0U
		63.5 × 100	0.75	14.7	ESME250LGC184MDA0U	80	27,000	50 × 120	0.30	8.60	ESME800LGC273MCC0U
		63.5 × 120	0.80	16.8	ESME250LGC224MDC0U		33,000		0.35	9.30	ESME800LGC333MDA0U
		76.2 × 100	0.90	18.3	ESME250LGC274MEA0U		47,000		0.35	12.0	ESME800LGC473MDC0U
		76.2 × 120	1.00	20.7	ESME250LGC334MEC0U			76.2 × 120	0.35	15.4	ESME800LGC683MEC0U
		76.2 × 140	1.20	22.1	ESME250LGC394MEE0U		82.000		0.35	18.1	ESME800LGC823MEE0U
	560,000	89 × 140	1.50	25.8	ESME250LGC564MFE0U		100,000	89 × 140	0.40	21.0	ESME800LGC104MFE0U
	15,000	35 × 50	0.30	3.90	ESME350LGB153MA50U		2,200	35 × 50	0.10	2.50	ESME101LGB222MA50U
	33,000	35 × 80	0.40	6.00	ESME350LGB333MA80U		4,700	35 × 80	0.15	3.40	ESME101LGB472MA80U
35	39,000	35 × 100	0.40	7.00	ESME350LGB393MAA0U		6,800	35 × 100	0.15	4.20	ESME101LGB682MAA0U
	47,000	35 × 120	0.45	8.00	ESME350LGB473MAC0U		8,200	35 × 120	0.15	5.00	ESME101LGB822MAC0U
	68,000	50 × 80	0.50	9.00	ESME350LGC683MC80U		10,000	50 × 80	0.20	5.20	ESME101LGC103MC80U
	82,000	50 × 100	0.55	10.3	ESME350LGC823MCA0U		18,000		0.20	8.10	ESME101LGC183MCC0U
	120,000	50 × 120	0.60	12.8	ESME350LGC124MCC0U	100	22,000	 	0.25	8.60	ESME101LGC223MDA0U
		63.5 × 100	0.70	14.0	ESME350LGC154MDA0U		27,000		0.25	10.3	ESME101LGC273MDC0U
	180,000	63.5 × 120	0.70	16.6	ESME350LGC184MDC0U			76.2 × 100	0.25	11.1	ESME101LGC333MEA0U
	220,000	76.2 × 100	0.75	17.3	ESME350LGC224MEA0U		39.000		0.25	12.4	ESME101LGC393MEC0U
	270.000	76.2 × 100	0.80	19.8	ESME350LGC274MEC0U		47,000		0.25	14.3	ESME101LGC473MEE0U
-	-,	76.2×120 76.2×140	0.80	22.5	ESME350LGC274MEC00		68,000	89 × 140	0.23	18.0	ESME101LGC683MFE0U
		1 U.L /\ 14U	0.50	22.0	LOWILOUGHOUGHWILLUU			1 00 140	0.00	1 10.0	LOWIL TO ILGOUOUSIVII LUU

PRATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

- 1 7								
Rated voltage	Case diameter	Frequency (Hz)						
(V _{dc})	(mm)	50	120	300	1k	10k	50k	
10 to 50	φ35 to φ89	0.95	1.00	1.03	1.05	1.09	1.12	
63 & 80	φ35	0.90	1.00	1.06	1.10	1.18	1.22	
	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	

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type