

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

● RoHS2 Compliant



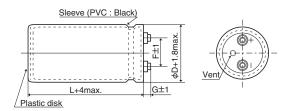


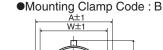
SPECIFICATIONS

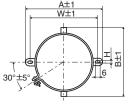
Items	Characteristics						
Category Temperature Range	-40 to +85℃ (10 to 100V	dc)					
Rated Voltage Range	10 to 100V _{dc}						
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)			
Leakage Current	I=0.02CV or 5mA, whiche Where, I: Max. leakage	ever is smaller. current (μΑ), C : Nominal capacitance (μΓ	r), V : Rated voltage (V)	(at 20°C after 5 minutes)			
Dissipation Factor $(\tan \delta)$	Shall not exceed the values shown in the STANDARD RATINGS (at 20°C, 120Hz)						
Low Temperature Characteristics	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 $500V_{dc}$, 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	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°C w voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5 Capacitance change ≤±20% of the initial value D.F. (tan δ) ≤150% of the initial specified value Leakage current ≤The initial specified value						

◆DIMENSIONS (Screw-Mount) [mm]

●Terminal Code: LG

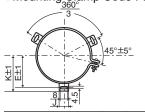






φD	Α	В	W	Н	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5

■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>

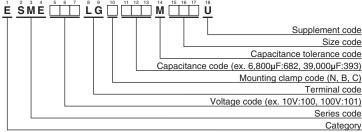
 ϕ 35 to ϕ 63.5 : G=6

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

Record Section Secti	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.
100,000 35 x 100 0.70 8.00 ESME*IDOLGBIO4MAAOU 170,000 35 x 120 0.70 9.40 ESME*IDOLGGI-SAMCAGU 270,000 50 x 100 1.00 12.1 ESME*IDOLGCZ*AMCAGU 270,000 50 x 100 1.00 12.1 ESME*IDOLGCZ*AMCAGU 50,000 63.5 x 100 1.50 15.3 ESME*IDOLGCZ*AMCAGU 50,000 63.5 x 100 1.50 15.3 ESME*IDOLGCZ*AMCAGU 50,000 76.2 x 100 2.50 17.3 ESME*IDOLGCZ*AMCAGU 120,000 83.5 x 120 0.45 11.1 ESME*ESOLGCS8MCAG 120,000 83.5 x 120 0.45 12.0		39,000	35 × 50	0.60	4.70	ESME100LGB393MA50U		10,000	35 × 50	0.25	4.10	ESME500LGB103MA50U
120,000 35 x 120 0.70 9.40 ESME-IDOLGEIZAMACOU 150,000 50 x 80 0.90 9.80 ESME-IDOLGEISAMCAGU 29,000 50 x 100 1.00 12.1 ESME-IDOLGCZ-AMCAGU 39,000 50 x 100 0.40 9.80 ESME-EDOLGCS-SMCZ 39,000 50 x 100 0.40 9.80 ESME-EDOLGCS-SMCZ 39,000 50 x 100 0.40 9.80 ESME-EDOLGCS-SMCZ 56,000 50 x 100 0.40 9.80 ESME-EDOLGCS-SMCZ 150,000 76.2 x 110 0.80 12.2 ESME-EDOLGCS-SMCZ 150,000 76.2 x 110 0.80 12.2 ESME-EDOLGCS-SMCZ 150,000 76.2 x 110 0.80 18.1 ESME-EDOLGCS-SMCZ 150,000 35 x 100 0.20 3.00 ESME-EDOLGCS-SMCZ 150,000 35 x 100 0.25 5.30 ESME-ESDOLGCS-SMCZ 150,000 35 x 100 0.25 5.30 ESME-ESDOLGCS-SMCZ 150,000 35 x 100 0.35 18.10 ESME-EDOLGCS-SMCZ 150,000 18.30 18.30 ESME-EDOLGCS-SMCZ 150,000 18.30 18.30 18.30 18.30 18.30 18.30 18.30 18.30 18.30 18.30 18.30 18.3		82,000	35 × 80	0.60	7.40	ESME100LGB823MA80U		18,000	35 × 80	0.25	5.20	ESME500LGB183MA80U
150,000 50 x 100 1.00 1.01 1.21 1.5		100,000	35 × 100	0.70	8.00	ESME100LGB104MAA0U		22,000	35 × 100	0.30	5.90	ESME500LGB223MAA0U
10 220,000 50 × 100 1,00 12,1 ESMETIOLIGC224MCAQU 270,000 50 × 120 1,20 13.6 ESMETIOLIGC334MCDAQU 82,000 63.5 × 100 1,50 15.3 ESMETIOLIGC334MCDAQU 82,000 63.5 × 120 2,00 16.0 ESMETIOLIGC334MCDAQU 82,000 76.2 × 120 3,00 18.7 ESMETIOLIGC354MEDAQU 120,000 35 × 50 0,45 4.20 ESMETIOLIGC354MEDAQU 120,000 35 × 50 0,45 4.20 ESMETIOLIGC354MEDAQU 120,000 35 × 100 0,45 13.1 ESMETIOLIGC354MEDAQU 120,000 35 × 100 0,45 13.1 ESMETIOLIGC354MEDAQU 120,000 35 × 100 0,70 8,00 ESMETIOLIGCS64MEDAQU 120,000 50 × 80 0.80 9.60 ESMETIOLIGGS64MEDAQU 120,000 50 × 80 0.80 9.60 ESMETIOLIGGS64MEDAQU 120,000 50 × 80 0.80 9.60 ESMETIOLIGGS64MEDAQU 120,000 50 × 80 0.80 9.60 ESMETIOLIGGS14MCAQU 120,000 50 × 80 0.80 9.60 ESMETIOLIGGS14MCAQU 120,000 50 × 100 0.80 11.2 ESMETIOLIGC354MCAQU 120,000 50 × 100 0.80 11.2 ESMETIOLIGC354MCAQU 120,000 76.2 × 120 1.30 17.1 ESMETIOLIGC354MCAQU 120,000 76.2 × 120 1.80 19.3 ESMETIOLIGC354MCAQU 120,000 76.2 × 120 1.80 120,000 120		120,000	35 × 120	0.70	9.40	ESME100LGB124MAC0U		27,000	35 × 120	0.35	6.60	ESME500LGB273MAC0U
270,000		150,000	50 × 80	0.90	9.80	ESME100LGC154MC80U		39,000	50 × 80	0.40	7.40	ESME500LGC393MC80U
270,000 50.5 × 120 1.20 13.6 ESME-100LGC274MCCOU	10	220,000	50 × 100	1.00	12.1	ESME100LGC224MCA0U		56,000	50 × 100	0.40	9.80	ESME500LGC563MCA0U
170,000 63.5 x 120 2.00 16.0 ESME100LGC474MDCOU 150,000 76.2 x 120 3.00 18.7 ESME100LGC684MECOU 150,000 76.2 x 120 3.00 18.7 ESME100LGC684MECOU 150,000 76.2 x 120 3.00 18.1 ESMESOLGC134MEC 150,000 76.2 x 120 3.00 18.1 ESMESOLGC134MEC 150,000 35 x 50 3.5 x 50 3.		270,000	50 × 120	1.20	13.6	ESME100LGC274MCC0U	50	68,000	50 × 120	0.45	11.1	ESME500LGC683MCC0U
\$60,000 76.2 x 100 2.50 17.3 ESME100LGCS64MEAQU 27,000 35 x 50 0.45 4.20 ESME100LGB273MASQU 18.0 0.000 35 x 50 0.45 4.20 ESME100LGB273MASQU 18.0 0.000 35 x 50 0.60 0.55 ESME500LGC184MEEQU 270,000 35 x 100 0.70 8.00 ESME100LGB823MAAQU 120,000 50 x 80 0.60 ESME100LGB10634MACQU 120,000 50 x 80 0.80 9.60 ESME160LGC124MCSQU 120,000 50 x 100 0.90 11.2 ESME160LGC124MCSQU 270,000 63.5 x 120 1.00 14.2 ESME160LGC274MDAQU 270,000 63.5 x 120 1.00 14.2 ESME160LGC274MDAQU 390,000 76.2 x 120 1.80 1.50 SSME160LGC344MEQU 470,000 76.2 x 120 1.80 1.80 19.3 ESME160LGC34MEEQU 18.000 76.2 x 120 1.80 1.80 19.3 ESME160LGC34MEEQU 18.000 35 x 120 0.40 13.3 ESME160LGC34MEAQU 270,000 76.2 x 120 1.80 1.80 1.80 18.3 ESME160LGC34MEAQU 270,000 76.2 x 120 1.80 1.80 19.3 ESME160LGC34MEEQU 18.000 35 x 120 1.80 1.80 19.3 ESME160LGC34MEEQU 18.000 35 x 120 1.80 1.80 18.00		390,000	63.5 × 100	1.50	15.3	ESME100LGC394MDA0U		82,000	63.5 × 100	0.50	12.2	ESME500LGC823MDA0U
880,000 76.2 × 140 3.0 0 18.7 ESME160LGCS84MECOU 270,000 35 × 50 0.05 4.20 ESME160LGB273MA50U 20,000 35 × 50 0.07 9.60 ESME160LGB563MA60U 100,000 35 × 120 0.70 9.60 ESME160LGB164MA60U 100,000 35 × 120 0.70 9.60 ESME160LGG124MC60U 150,000 35 × 120 0.70 9.60 ESME160LGG124MC60U 2270,000 63.5 × 120 1.00 14.2 ESME160LGC224MCC0U 2390,000 63.5 × 120 1.00 14.2 ESME160LGC34MMA60U 390,000 63.5 × 120 1.30 17.1 ESME160LGC34MA60U 470,000 63.5 × 120 1.30 17.1 ESME160LGC34MA60U 470,000 76.2 × 140 2.00 20.7 ESME160LGC34MA60U 470,000 35 × 50 0.35 4.00 ESME250LGC34MA60U 470,000 35 × 100 0.40 10.2 ESME30LGC33MA60U 470,000 35 × 100 0.40 10.2 ESME30LGC34MA60U 470,000 35 × 100 0.40 10.4 ESME30LGC34MA60U 470,000 35 × 100 0.40 10.4 ESME30LGC34MA60U 470,000 35 × 100 0.40 10.4 ESME30LGC34MA60U 180,000 50 × 100 0.60 12.8 ESME250LGB38MA60U 180,000 50 × 100 0.60 12.8 ESME250LGC34MA60U 150,000 50 × 100 0.50 100 0.60 10.8 ESME250LGC34MA60U 150,000 50 × 100 0.50 100 0.60 12.8 ESME250LGC34MA60U 150,000 50 × 100 0.50 10.0 0.60 12.8 ESME250LGC34MA60U 150,000 50 × 100 0.50 10.0 0.50 10		470,000	63.5 × 120	2.00	16.0	ESME100LGC474MDC0U		120,000	63.5 × 120	0.50	16.0	ESME500LGC124MDC0U
1680.000 76.2 × 120 3.00 18.7 ESME100LGC684MECOU 270.000 35 × 50 0.45 4.20 ESME160LGB273MA50U 56.000 35 × 50 0.45 4.20 ESME160LGB583MA8OU 50.000 35 × 100 0.70 8.00 ESME160LGB583MA8OU 50.000 35 × 100 0.70 8.00 ESME160LGB1604MA8OU 50.000 35 × 120 0.70 9.00 ESME160LGB1604MA8OU 50.000 35 × 120 0.70 9.00 ESME160LGC224MCGOU 50.000 50 × 120 1.00 14.2 ESME160LGC224MCGOU 270.000 63.5 × 120 1.00 14.2 ESME160LGC224MCGOU 270.000 63.5 × 120 1.30 17.1 ESME160LGC34MMEOU 470.000 63.5 × 120 1.30 17.1 ESME160LGC34MEAOU 470.000 76.2 × 140 2.00 20.7 ESME160LGC54MECOU 560.000 76.2 × 140 2.00 20.7 ESME160LGC584MEEOU 18.000 35 × 100 0.45 8.30 ESME250LGB383MAOU 47.000 35 × 120 0.45 8.30 ESME250LGB383MAOU 270.000 50 × 100 0.60 1.8 ESME250LGC824MCGOU 270.000 50 × 100 0.60 1.8 ESME250LGC823MCGOU 270.000 50 × 100 0.50 1.00 20.7 ESME250LGC823MCGOU 270.000 50 × 100 0.50 1.00 20.7 ESME250LGC823MCGOU 270.000 2		560,000		2.50				150,000				ESME500LGC154MEC0U
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◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

11.1.1									
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.



CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- 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.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. 3 Medical equipment 4 Transport equipment (automobiles, trains, ships, etc.) (5) Transportation control equipment (6) Disaster prevention / crime prevention equipment (7) Highly publicized information processing equipment ® Submarine equipment ® Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
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 - products
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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