

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

● RoHS2 Compliant



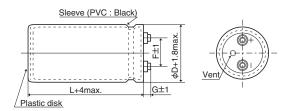


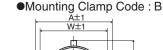
### **SPECIFICATIONS**

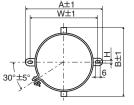
Items	Characteristics						
Category Temperature Range	-40 to +85℃ (10 to 100V	dc)					
Rated Voltage Range	10 to 100V <sub>dc</sub>						
Capacitance Tolerance	±20% (M)			(at 20°C, 120Hz)			
Leakage Current	I=0.02CV or 5mA, whiche Where, I: Max. leakage	ever is smaller. current (μΑ), C : Nominal capacitance (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 $500V_{40}$ , the insulation resistance shall not be less than $100M\Omega$ .						
Insulation Withstanding Voltage	When a voltage of 2,000V <sub>ac</sub> 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 wivoltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5°C apacitance change    □ Leakage current   □ Leakage curren						

### **◆DIMENSIONS (Screw-Mount) [mm]**

### ●Terminal Code: LG

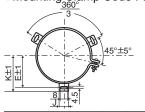






φD	Α	В	W	Н	F
35	58.0	44.0	48.0	3.5	12.7
50	78.0	64.0	68.0	4.5	22.4
63.5	90.0	76.0	80.0	4.5	28.0
76.2	104.5	90.0	93.5	4.5	31.5

### ■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>

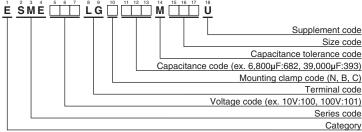
 $\phi$ 35 to  $\phi$ 63.5 : G=6

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)"



# **SME**Series

### **STANDARD RATINGS**

Record   Section   Secti	WV (V <sub>dc</sub> )	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 85°C, 120Hz)	Part No.	WV (V <sub>dc</sub> )	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 × 80   0.80   9.60   ESMETIOLIGGS34MEDAQU   120,000   50 × 80   0.80   9.60   ESMETIOLIGGS34MEDAQU   120,000   76.2 × 120   1.30   17.1   ESMETIOLIGC354MCAQU   120,000   76.2 × 120   1.80   19.3   ESMETIOLIGGS34MEDAQU   120,000   76.2 × 120   1.80   1.80   ESMESSALIGGS34MEDAQU   120,000   76.2 × 120   1.80   1.80   ESMESSALIGGS34MEDAQU   120,000   76.2 × 120   1.80   1.80   ESMESSALIGGS33MADQU   120,000   35 × 120   0.40   1.20   22.1   ESMESSALIGGS33MADQU   120,000   35 × 120   0.4		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   160,000   50 × 100   0.60   10.8   ESME250LGC54MA60U   150,000   80 × 140   0.50   19.0   ESME630LGC33MA60U   160,000   50 × 100   0.60   10.8   ESME250LGC34MA60U   150,000   50 × 100   0.50   100   0.60   10.8   ESME250LGC34MA60U   150,000   50 × 100   0.50   100   0.60   10.8   ESME250LGC34MA60U   150,000   50 × 100   0.50   100   0.60   10.8   ESME250LGC34MA60U   150,000   50 × 100   0.50   100   0.50   16.8   ESME250LGC34MA60U   150,000   50 × 100   0.50   10.0   10.0   10.0   ESME250LGC34MA60U   150,000   50 × 100   0.50   10.0   10.0   10.0   ESME250LGC32MA60U   150,000   50 × 100   0.50   10.0   10.0   10.0   ESME250LGC32MA60U   150,000   10.0		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
27,000   35 × 50   0.45   4.20   ESME160LGB273MA50U   120,000   35 × 100   0.70   8.00   ESME160LGB583MA60U   120,000   35 × 100   0.70   9.60   ESME160LGB183MA60U   120,000   50 × 80   0.80   9.60   ESME160LGG124MC60U   120,000   50 × 80   0.80   9.60   ESME160LGG124MC60U   120,000   50 × 100   0.90   11.2   ESME160LGC224MC60U   270,000   63.5 × 100   1.20   15.3   ESME160LGC224MC60U   470,000   76.2 × 100   1.60   18.0   ESME160LGC393MMC0U   470,000   76.2 × 120   1.80   19.3   ESME160LGC393MMC0U   470,000   76.2 × 120   1.80   19.3   ESME160LGC393MMC0U   180,000   35 × 80   0.40   6.20   ESME250LGB183MAA0U   280,000   50 × 120   0.35   100   0.40   7.40   ESME250LGG184MCA0U   280,000   50 × 100   0.60   12.8   ESME250LGC393MC0U   270,000   63.5 × 100   0.60   12.8   ESME250LGC393MC0U   270,000   76.2 × 140   0.90   12.5   ESME250LGC393MC0U   270,000   76.2 × 140   0.90   12.5   ESME250LGC393MC0U   270,000   50 × 120   0.60   12.8   ESME250LGG184MC0U   270,000   76.2 × 140   0.90   12.8   ESME250LGC393MC0U   270,000   50 × 100   0.90   13.3   ESME250LGG194MC0U   270,000   50 × 120   0.90   13.3   ESME250LGC393MEC0U   270,000   50 × 120   0.90   13.3   ESME250LGC393MEC0U   270,000   50 × 120   0.90   13.3   ESME250LGC373MC0U   270,000   50 × 120   0.90   13.3   ESME250LGC393MEC0U   270,000   50 × 120   0.90   13.3   ESME250LGC393MEC0U   270,000   50 × 120   0.90   13.3   ESME250LGC393MEC0U   270,000   50 × 120   0.90   13.3   ESME250LGC393MC0U   270,000   50 × 120   0.90   270,000   50 × 120   0.90   270,000   50 × 120   0.90   270,000   50 × 120   0.90   270,000   270,000   270,000   270,000   270,000   270,000   270,000   270,00		680.000		3.00	18.7					0.70	19.5	ESME500LGC184MEE0U
56.000   35 × 100   0.70   8.00   ESME160LGB83MA80U   100,000   35 × 120   0.70   9.60   ESME160LGB104MACOU   100,000   35 × 120   0.70   9.60   ESME160LGB104MACOU   120,000   50 × 100   0.90   11.2   ESME160LGC124MC80U   120,000   50 × 100   0.90   11.2   ESME160LGC224MCAOU   120,000   63.5 × 120   1.30   17.1   ESME160LGC354MACOU   270,000   63.5 × 120   1.30   17.1   ESME160LGC354MACOU   390,000   76.2 × 140   2.00   20.7   ESME160LGC564MECOU   560,000   35 × 120   1.30   17.1   ESME160LGC354MACOU   68,000   35 × 120   1.30   17.1   ESME160LGC354MACOU   69,000   35 × 120   1.30   17.1   ESME160LGC354MECOU   18,000   35 × 120   1.30   17.1   ESME160LGC354MECOU   18,000   35 × 120   1.30   17.1   ESME160LGC354MECOU   18,000   35 × 120   1.30   17.1   ESME30LGC33MACOU   18,000   35 × 120   1.30   17.1   ESME30LGC354MECOU   18,000   35 × 120   1.30   17.1   ESME30LGB133MAGOU   18,000   35 × 120   1.30   18.0   ESME250LGB133MAGOU   18,000   35 × 120   1.30   18.0   ESME250LGB133MAGOU   18,000   35 × 120   1.30   18.0   ESME250LGC324MCOU   12,000   50 × 120   1.30   18.0   ESME250LGC324MCOU   12,000   50 × 120   1.30   18.0   ESME250LGC324MECOU   12,000   50 × 120   1.30   18.0   ESME250LGC324MECOU   12,000   35 × 120   1.30   18.0   ESME30LGC33MAGOU   18,000   50 × 120   1.30   18.0   ESME30LGG83MAGOU   18,000   50 × 120   1.30   18.0   ESME30LGC33MAGOU   18,000   50 × 120   1.30   1												ESME500LGC274MFE0U
82,000   35 × 100   0.70   8.00   ESME160LGB823MAAOU   100,000   35 × 120   0.70   9.60   ESME160LGG124MC80U   15,000   50 × 100   0.90   11.2   ESME160LGG124MC80U   27,000   63.5 × 100   1.20   15.3   ESME160LGG224MCC0U   27,000   63.5 × 100   1.20   15.3   ESME160LGG224MC80U   39,000   76.2 × 101   1.30   17.1   ESME160LGG224MC80U   47,000   76.2 × 102   1.80   1.80   1.80   ESME30LGG334MDC0U   47,000   76.2 × 102   1.80   1.80   ESME30LGG334MDC0U   18,000   35 × 80   0.35   1.80   ESME30LGG334MC0U   18,000   35 × 80   0.35   1.80   ESME30LGG334MC0U   18,000   35 × 80   0.35   1.80   ESME30LGG334MA8U   18,000   35 × 80   0.40   6.20   ESME250LGB133MASOU   180,000   50 × 80   0.35   1.80   ESME30LGG333MC0U   180,000   50 × 80   0.35   1.80   ESME30LGG333MC0U   180,000   50 × 80   0.35   1.80   ESME30LGG243MC0U   180,000   63.5 × 100   0.40   7.40   ESME250LGB133MASOU   220,000   63.5 × 100   0.40   7.40   ESME250LGB333MASOU   220,000   63.5 × 100   0.40   7.40   ESME250LGB333MASOU   220,000   63.5 × 100   0.60   10.8   ESME250LGB33MASOU   220,000   63.5 × 100   0.60   10.8   ESME250LGB33MASOU   220,000   63.5 × 100   0.60   10.8   ESME250LGB23MMCOU   220,000   63.5 × 100   0.75   14.7   ESME250LGC124MCCOU   220,000   63.5 × 100   0.75   14.7   ESME250LGC124MCCOU   220,000   63.5 × 100   0.75   14.7   ESME250LGC124MCCOU   27,000   50 × 20   0.80   16.8   ESME250LGC34MDCOU   27,000   35 × 20   0.45   0.75   14.7   ESME250LGC34MDCOU   27,000   35 × 20   0.80   18.3   ESME30LGB33MASOU   220,000   63.5 × 100   0.75   14.7   ESME250LGC34MDCOU   27,000   35 × 20   0.80   28,00				0.60								ESME630LGB562MA50U
100,000   35 × 120   0.70   9.60   ESME160LGG124MC80U   100,000   50 × 100   0.90   11.2   ESME160LGC124MC80U   15,000   35 × 100   0.90   11.2   ESME160LGC124MC80U   220,000   50 × 120   1.00   14.2   ESME160LGC224MC80U   220,000   63.5 × 100   1.20   15.3   ESME160LGC234MDA0U   330,000   63.5 × 120   1.30   17.1   ESME160LGC334MDC0U   370,000   63.5 × 120   1.30   17.1   ESME160LGC334MDC0U   470,000   63.5 × 120   1.80   19.3   ESME160LGC334MEBC0U   560,000   76.2 × 120   1.80   19.3   ESME160LGC334MEBC0U   560,000   76.2 × 120   0.40   7.00   2												
120,000   50 × 80   0.80   9.60   ESME160LGC124MC80U   150,000   50 × 100   0.90   11.2   ESME160LGC154MCA0U   270,000   63.5 × 120   1.00   14.2   ESME160LGC274MDA0U   330,000   63.5 × 120   1.30   17.1   ESME160LGC274MDA0U   470,000   76.2 × 120   1.80   19.3   ESME160LGC394MEAU   470,000   76.2 × 120   1.80   19.3   ESME160LGC394MEAU   470,000   76.2 × 120   1.80   19.3   ESME160LGC394MEAU   180,000   35 × 50   0.35   4.00   ESME250LGB393MA80U   470,000   35 × 120   0.45   8.30   ESME250LGB393MA80U   82,000   50 × 120   0.45   8.30   ESME250LGB393MA80U   82,000   50 × 120   0.80   10.8   ESME250LGC83MC80U   100,000   50 × 100   0.60   10.8   ESME250LGC83MC80U   100,000   63.5 × 120   0.40   1.20   ESME30DLGB133MA3U   220,000   63.5 × 120   0.40   1.20   ESME250LGC24MDC0U   220,000   63.5 × 120   0.40   1.20   ESME250LGC33MMEEOU   220,000   63.5 × 120   0.40   1.00   ESME250LGC34MC60U   100,000   50 × 100   0.60   10.8   ESME250LGC24MDC0U   220,000   63.5 × 120   0.40   1.70   ESME250LGC34MC60U   150,000   35 × 120   0.30   16.8   ESME250LGC34MEC0U   220,000   63.5 × 120   0.30   16.8   ESME250LGC34MEC0U   220,000   63.5 × 120   0.30   16.8   ESME250LGC34MEC0U   220,000   63.5 × 120   0.30   1.50   ESME30LGC333MA8OU   220,000   76.2 × 140   1.20   22.1   ESME30LGC333MA8OU   220,000   76.2 × 140   1.20   22.1   ESME30LGC333MA8OU   220,000   76.2 × 140   1.20   22.1   ESME30LGC333MA8OU   220,000   76.2 × 140   1.50   25.8   ESME350LGC34MEC0U   220,000   35 × 50   0.30   3.90   ESME30LGB33MA8OU   220,000   35 × 120   0.35   3.40   ESME30LGC333MEAU   220,000   35 × 120   0.35   3.40   ESME30LGC333MA8OU   220,000   35 × 120   0.35   3.40   ESME30LGC333MA8OU   330,000   35 × 120   0.45   3.00   ESME30LGB33MA8OU   340,000   35 × 120   0.35   3.40   ESME30LGC333MA8OU   340,000   35 × 120   0.35   3.												
150,000   50 × 100   0.90   11.2   ESME160LGC154MCAOU   220,000   50 × 120   1.00   14.2   ESME160LGC24MCOU   220,000   63.5 × 100   1.20   15.3   ESME160LGC234MDAOU   330,000   63.5 × 120   1.30   17.1   ESME160LGC334MDAOU   470,000   76.2 × 120   1.80   19.3   ESME160LGC394MEAOU   68,000   63.5 × 120   0.40   18.0   ESME160LGC394MEAOU   68,000   63.5 × 120   0.40   18.0   ESME30LGC394MEAOU   180,000   35 × 30   0.40   0.40   7.40   ESME250LGB183MASOU   82,000   50 × 80   0.50   9.70   ESME250LG634MCAOU   180,000   63.5 × 120   0.40   1.8   ESME250LGC634MEAOU   220,000   63.5 × 120   0.80   18.3   ESME250LGC634MEAOU   220,000   76.2 × 120   1.00   0.90   18.3   ESME250LGC34MEAOU   220,000   76.2 × 120   1.00   0.90   18.3   ESME250LGC34MEAOU   220,000   76.2 × 120   1.00   0.90   18.3   ESME250LGC34MEAOU   220,000   76.2 × 120   1.00   0.90   18.3   ESME250LGC334MECOU   330,000   76.2 × 120   1.00   0.90   18.3   ESME250LGC334MECOU   220,000   76.2 × 120   1.00   0.90   18.3   ESME250LGC334MECOU   330,000   35 × 50   0.30   3.90   ESME350LGC334MECOU   220,000   30 × 50   0.30   3.90   ESME350LGC334MECOU   330,000   35 × 100   0.40   7.00   ESME350LGC334MECOU   330,000   35 × 100   0.45   8.00   ESME350LGC334MCAOU   47,000   35 × 120   0.35   18.1   ESME300LGC333MCAOU   47,000   35 × 120   0.35   10.3   ESME350LGC334MCAOU   47,000   35 × 120   0.35   10.3   ESME30LGC334MCAOU   47,000   35 × 120   0.35   10.3   ESME30LGC334MCAOU   47,000   35 × 120   0.25   10.3   ESME30LGC334MCAOU   47,000   35 × 120   0.25   10.3   ESME30LGC334MCAOU   47,000   35 × 120   0.25   10.3   ESM								-,				
18												
270,000   63.5 × 100   1.20   15.3   ESME160LGC274MDA0U   330,000   63.5 × 120   1.30   17.1   ESME160LGC334MDCOU   47.000   63.5 × 120   1.30   17.1   ESME160LGC334MDCOU   47.000   63.5 × 120   1.80   18.0   ESME30LGC473MDA   68.000   63.5 × 120   0.40   13.3   ESME630LGC473MDA   68.000   63.5 × 120   0.40   13.3   ESME630LGC473MDA   150,000   62.2 × 120   1.80   19.3   ESME30LGC563MDCOU   120,000   76.2 × 120   0.40   13.3   ESME530LGC563MECOU   120,000   76.2 × 120   0.45   17.1   ESME630LGC144MEC   120,000   76.2 × 140   0.55   22.0   ESME630LGC154MEE   150,000   35 × 150   0.40   7.40   ESME250LGB393MA8OU   47.000   35 × 120   0.45   8.30   ESME250LGG83MCC0U   120,000   50 × 120   0.60   12.8   ESME250LGC14MDCAOU   120,000   50 × 120   0.60   12.8   ESME250LGC34MDCOU   270,000   76.2 × 120   0.80   14.8   ESME250LGC334MECOU   330,000   76.2 × 120   1.00   20.7   ESME250LGC334MECOU   330,000   76.2 × 120   0.45   8.00   ESME350LGB333MA8OU   47,000   35 × 150   0.45   8.00   ESME350LGC24MDCOU   47,000   47,0	16	,										
330,000   63.5 × 120   1.30   17.1   ESME160LGC334MDCOU   390,000   76.2 × 120   1.80   19.3   ESME160LGC394MEADU   19.00   76.2 × 120   1.80   19.3   ESME160LGC374MECOU   18.00   76.2 × 140   2.00   20.7   ESME250LGB183MASDU   19.00   76.2 × 140   2.00   20.7   ESME250LGB393MASDU   19.00   35 × 50   0.35   4.00   ESME250LGB393MASDU   19.00   35 × 100   0.40   7.40   ESME250LGB393MASDU   100,000   50 × 120   0.45   8.30   ESME250LGB363MASDU   100,000   50 × 120   0.60   12.8   ESME250LGC24MDCOU   12.000   50 × 120   0.60   12.8   ESME250LGC24MDCOU   12.000   50 × 120   0.80   16.8   ESME250LGC24MDCOU   12.000   18.3   ESME250LGC34MECU   12.000   18.3   ESME250LGC34MECU   12.000   18.3   ESME250LGC34MDCOU   12.000   18.3   ESME350LGB33MASOU   18.0   ESME350LGB33MASOU   18.0   ESME350LGC34MDCOU   18.000   18.00							63					
390,000   76.2 × 100   1.60   18.0   ESME160LGC394MEAOU   470,000   76.2 × 120   1.80   18.0   18.0   19.3   ESME160LGC474MECOU   100,000   76.2 × 120   0.45   17.1   ESME630LGC104MEC   100,000   76.2 × 120   0.45   17.1   ESME630LGC104MEC   100,000   76.2 × 120   0.45   17.1   ESME630LGC124MEG   100,000   76.2 × 120   0.45   17.1   ESME630LGC124MEG   100,000   76.2 × 120   0.45   17.1   ESME630LGC124MEG   100,000   76.2 × 120   0.45   17.1   ESME630LGC134MEG   150,000   35 × 50   0.35   4.00   ESME250LGB393MA3OU   47,000   35 × 100   0.40   7.40   ESME250LGB363MAOU   82,000   50 × 80   0.50   9.70   ESME250LGB363MAOU   100,000   50 × 100   0.60   10.8   ESME250LGC393MC80U   180,000   63.5 × 120   0.40   12.8   ESME250LGC134MCDU   220,000   63.5 × 120   0.80   18.8   ESME250LGC134MDAOU   220,000   63.5 × 120   0.90   18.3   ESME250LGC334MEAOU   220,000   63.5 × 120   0.90   18.3   ESME250LGC334MEAOU   330,000   76.2 × 140   1.20   22.1   ESME250LGC334MEDOU   330,000   76.2 × 120   1.00   20.7   ESME350LGC334MEDOU   330,000   35 × 50   0.30   3.90   ESME350LGB333MA3OU   47,000   35 × 50   0.30   3.90   ESME350LGB333MA3OU   47,000   35 × 100   0.45   8.00   ESME350LGB333MA3OU   47,000   35 × 100   0.45   8.00   ESME350LGB333MA3OU   47,000   35 × 100   0.55   10.3   ESME350LGC34MEDOU   47,000   35 × 120   0.25   11.1   ESME101LGC233MEA   47,000   35 × 120   0.25   12.4   ESME101LGC233MEA   47,000   35 × 120   0.25   11.1   ESME101LGC233MEA   47,000   35 × 120   0.25   12.4   ESME101LGC233MEA   47,000   35 × 120   0.25   12.4   ESME101LGC333MEA   47,000   35 × 120   0.25   12.4   ESME101												
470,000   76.2 × 120   1.80   19.3   ESME160LGC474MECOU   560,000   76.2 × 140   2.00   20.7   ESME160LGC564MEEOU   120,000   76.2 × 140   0.50   19.0   ESME630LGC124MEEOU   120,000   76.2 × 140   0.50   19.0   ESME630LGC124MEEOU   150,000   89 × 140   0.55   22.0   ESME630LGC124MEEOU   150,000   89 × 140   0.55   22.0   ESME630LGC134MEEOU   150,000   89 × 140   0.55   22.0   ESME630LGC134MEEOU   150,000   89 × 140   0.55   22.0   ESME630LGC134MEEOU   150,000   89 × 140   0.55   22.0   ESME630LGC334MEOU   150,000   89 × 140   0.55   22.0   ESME630LGC334MEOU   150,000   89 × 140   0.55   22.0   ESME630LGC334MEOU   150,000   89 × 140   0.55   22.0   ESME630LGB332MA50   150,000   150,000   150,000   150,000   150,000   150,000   150,000   150,000   150,000   150,000   150,000   12.0   150,000   150,000   12.0   150,000   150,000   12.0   150,000   150,000   12.0   150,000   150,000   12.0   150,000   150												
18,000   76.2 × 140   2.00   20.7   ESME160LGC564MEEOU   18,000   35 × 50   0.35   4.00   ESME250LGB183MA50U   39,000   35 × 80   0.40   6.20   ESME250LGB393MA80U   47,000   35 × 100   0.40   7.40   ESME250LGB473MAAOU   6,800   35 × 100   0.40   7.40   ESME250LGB683MA6OU   10,000   50 × 80   0.50   9.70   ESME250LGB563MACOU   10,000   50 × 100   0.60   10.8   ESME250LGC124MCCOU   180,000   63.5 × 120   0.60   12.8   ESME250LGC124MCCOU   180,000   63.5 × 120   0.80   16.8   ESME250LGC24MDCOU   270,000   76.2 × 140   1.20   22.1   ESME250LGC34MEAOU   330,000   76.2 × 120   1.00   20.7   ESME250LGC34MEAOU   330,000   76.2 × 120   1.00   20.7   ESME350LGC34MFEOU   560,000   89 × 140   1.50   25.8   ESME350LGC34MFEOU   150,000   35 × 120   0.35   12.0   ESME800LGC333MDA   270,000   35 × 100   0.30   3.90   ESME350LGB333MA8OU   39,000   35 × 100   0.40   7.00   ESME350LGB333MA8OU   39,000   35 × 100   0.45   8.00   ESME350LGB333MA8OU   39,000   35 × 100   0.45   8.00   ESME350LGB333MA8OU   39,000   35 × 120   0.45   8.00   ESME350LGB333MA8OU   39,000   35 × 120   0.45   8.00   ESME350LGB333MA8OU   39,000   35 × 120   0.45   8.00   ESME350LGC34MCOU   180,000   63.5 × 120   0.70   14.0   ESME350LGC334MECOU   180,000   63.5 × 120   0.70   14.0   ESME350LGC334MCOU   180,000   63.5 × 120   0.70   14.0   ESME350LGC224MEAOU   180,000   63.5 × 120   0.25   14.1   ESME101LGC233MCE   180,000   63.5 × 120   0.25   14.1   ESME101LGC233MCE   180,000   63.5 × 120   0.25   14.1   ESME101LGC233MEA   180,000   63.5 × 120		,										
18,000   35 × 50   0.35   4.00   ESME250LGB183MA50U   39,000   35 × 80   0.40   6.20   ESME250LGB393MA80U   47,000   35 × 100   0.40   7.40   ESME250LGB563MACOU   56,000   35 × 120   0.45   8.30   ESME250LGB563MACOU   82,000   50 × 80   0.50   9.70   ESME250LGC823MC80U   100,000   50 × 100   0.60   10.8   ESME250LGC124MCCOU   180,000   63.5 × 120   0.60   12.8   ESME250LGC124MCCOU   270,000   76.2 × 120   0.90   18.3   ESME250LGC224MDCOU   270,000   76.2 × 120   1.00   20.7   ESME250LGC33MME0U   390,000   76.2 × 120   1.00   20.7   ESME250LGC33MME0U   390,000   35 × 80   0.40   6.00   ESME350LGB33MA8OU   33,000   35 × 80   0.40   6.00   ESME350LGB33MA8OU   47,000   35 × 120   0.35   12.0   ESME800LGC83MECOU   39,000   35 × 80   0.40   6.00   ESME350LGB33MAAOU   47,000   35 × 120   0.35   12.0   ESME800LGC33MECOU   47,000   35 × 120   0.35   12.0   ESME800LGC33MDCA   47,000   35 × 120   0.35   13.40   ESME30LGC33MDCA   47,000   35 × 120   0.15   5.00   ESME30LGB33MA8OU   47,000   35 × 120   0.15   5.00   ESME30LGB33MAAOU   47,000   35 × 120   0.35   13.40   ESME101LGB322MA5   47,000   50 × 120   0.25   6.00   ESME30LGC33MDCA   47,000   35 × 120   0.25   6.00   63.5 × 120   0.25   6.00   63.5 × 120   0.25   6.00   63.5 × 120   0.25   6.00   63.5 × 120   0.25   6.00   63.5 × 120   0.25   6												
39,000   35 × 80   0.40   6.20   ESME250LGB393MA80U   47,000   35 × 100   0.40   7.40   ESME250LGB473MAAOU   56,000   35 × 120   0.45   8.30   ESME250LGB563MACOU   100,000   50 × 80   0.50   9.70   ESME250LGC823MC80U   100,000   50 × 100   0.60   10.8   ESME250LGC104MCAOU   120,000   50 × 100   0.60   12.8   ESME250LGC124MCCOU   120,000   63.5 × 120   0.80   16.8   ESME250LGC124MCCOU   220,000   63.5 × 120   0.80   16.8   ESME250LGC224MDCOU   270,000   76.2 × 120   0.90   18.3   ESME250LGC224MDCOU   270,000   76.2 × 120   0.90   18.3   ESME250LGC224MDCOU   330,000   76.2 × 120   1.00   20.7   ESME250LGC394MEEOU   560,000   39 × 140   1.50   25.8   ESME250LGC394MEEOU   560,000   39 × 140   1.50   25.8   ESME250LGC394MEEOU   560,000   35 × 120   0.45   8.00   ESME350LGB333MA8OU   47,000   35 × 120   0.45   8.00   ESME350LGC833MCAOU   47,000   35 × 120   0.25   8.60   ESME101LGB822MAO   47,000   35 × 120   0.25   1.3   ESME101LGC273MDC   47,000   35 × 120   0.25   1.3   ESME101LGC273MDC   47,000   35 × 120   0.25   1.3   ESME101LGC333MCAO   47,000   35												
47,000   35 × 100   0.40   7.40   ESME250LGB473MAAOU   56,000   35 × 120   0.45   8.30   ESME250LGB683MACOU   100,000   50 × 100   0.60   10.8   ESME250LGC14MCAOU   12,000   35 × 120   0.20   5.00   ESME800LGB13MACOU   12,000   50 × 120   0.60   12.8   ESME250LGC124MCCOU   180,000   63.5 × 120   0.80   16.8   ESME250LGC184MDAOU   220,000   63.5 × 120   0.80   16.8   ESME250LGC224MDCOU   390,000   76.2 × 120   1.00   20.7   ESME250LGC34MECOU   390,000   76.2 × 120   1.00   20.7   ESME250LGC34MECOU   560,000   89 × 140   1.50   25.8   ESME250LGC34MECOU   560,000   89 × 140   1.50   25.8   ESME250LGC364MFEOU   15,000   35 × 120   0.35   12.0   ESME800LGC33MDE   20,000   35 × 120   0.35   12.0   ESME800LGC33MDE   20,000   35 × 120   0.35   15.4   ESME800LGC33MDE   20,000   20,0		_										
Solution		,						-,				
82,000 50 x 80 0.50 9.70 ESME250LGC823MC80U 100,000 50 x 100 0.60 10.8 ESME250LGC104MCAOU 120,000 50 x 120 0.60 12.8 ESME250LGC124MCCOU 180,000 63.5 x 120 0.80 16.8 ESME250LGC124MCOU 270,000 76.2 x 100 0.90 18.3 ESME250LGC224MDCOU 330,000 76.2 x 120 1.00 20.7 ESME250LGC34MEOU 390,000 76.2 x 140 1.20 22.1 ESME250LGC34MEOU 390,000 35 x 50 0.30 3.90 ESME350LGC564MFEOU 15,000 35 x 120 0.35 18.1 ESME800LGC33MDA 60,000 89 x 140 1.50 25.8 ESME350LGC564MFEOU 33,000 35 x 100 0.40 7.00 ESME350LGB153MASOU 47,000 35 x 120 0.35 12.0 ESME800LGC33MEC 68,000 50 x 80 0.50 9.00 ESME350LGB33MAAOU 47,000 35 x 120 0.45 8.00 ESME350LGB33MAAOU 68,000 50 x 100 0.55 10.3 ESME350LGC683MCSOU 150,000 63.5 x 120 0.60 12.8 ESME350LGC124MCCOU 150,000 76.2 x 120 0.70 16.6 ESME350LGC184MDAOU 150,000 63.5 x 120 0.70 16.6 ESME350LGC184MDAOU 220,000 76.2 x 140 0.75 17.3 ESME350LGC184MDAOU 220,000 76.2 x 140 0.90 22.5 ESME350LGC34MEEOU 330,000 76.2 x 140 0.90 22.5 ESME350LGC34MEEOU 330,000 76.2 x 140 0.90 22.5 ESME350LGC34MEEOU 30,000 76.2 x 140 0.90 22.5 ESME350LGC334MEEOU 30,000 76.2 x 140 0.90 22.5 ESME350LGC34MEOU 30,000 76.2 x 140 0.90 22.5 ESME350LGC34MEOU 30,000 76.2 x 140 0.90 22.5 ESME350LGC34MEEOU 30,000 76.2 x 140 0.90 22.5 ESME350LGC34MEEOU 30,000 76.2 x 140 0.90 22.5 ESME350LGC334MEEOU 30,000 76.2										-		
100,000   50 × 100   0.60   10.8   ESME250LGC104MCAOU   120,000   50 × 120   0.60   12.8   ESME250LGC124MCCOU   180,000   63.5 × 100   0.75   14.7   ESME250LGC184MDAOU   220,000   63.5 × 120   0.80   16.8   ESME250LGC224MDCOU   270,000   76.2 × 100   0.90   18.3   ESME250LGC234MECOU   330,000   76.2 × 140   1.20   22.1   ESME250LGC334MECOU   390,000   76.2 × 140   1.20   22.1   ESME250LGC394MEEOU   560,000   89 × 140   1.50   25.8   ESME250LGC394MEEOU   15,000   35 × 50   0.30   35 × 80   0.40   6.00   ESME350LGB333MA8OU   39,000   35 × 120   0.45   8.00   ESME350LGB333MA8OU   47,000   35 × 120   0.45   8.00   ESME350LGB473MACOU   68,000   50 × 80   0.50   9.00   ESME350LGC83MC8OU   150,000   63.5 × 120   0.75   17.3   ESME350LGC134MDAOU   180,000   63.5 × 120   0.75   17.3   ESME350LGC224MECOU   270,000   76.2 × 140   0.90   22.5   ESME350LGC274MECOU   270,000   76.2 × 140   0.90   22.5   ESME350LGC334MECOU   270,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   270,000   76.2 × 1												
120,000   50 × 120   0.60   12.8   ESME250LGC124MCC0U   180,000   63.5 × 100   0.75   14.7   ESME250LGC184MDA0U   220,000   63.5 × 120   0.80   16.8   ESME250LGC224MDC0U   270,000   76.2 × 120   0.90   18.3   ESME250LGC274MEA0U   330,000   76.2 × 120   1.00   20.7   ESME250LGC334MEC0U   2560,000   89 × 140   1.50   25.8   ESME250LGC394MEE0U   2560,000   35 × 50   0.30   3.90   ESME350LGB33MA80U   47,000   35 × 50   0.30   3.90   ESME350LGB33MA80U   47,000   35 × 120   0.45   8.00   ESME350LGB33MAA0U   47,000   35 × 120   0.45   8.00   ESME350LGB33MAA0U   47,000   35 × 120   0.45   8.00   ESME350LGC83MCA0U   150,000   63.5 × 120   0.60   12.8   ESME350LGC83MCA0U   220,000   76.2 × 140   0.70   14.0   ESME350LGC394MECOU   220,000   76.2 × 120   0.60   12.8   ESME350LGC394MCA0U   220,000   76.2 × 120   0.60   12.8   ESME350LGC394MCA0U   220,000   76.2 × 120   0.60   12.8   ESME350LGC394MCA0U   220,000   76.2 × 120   0.70   16.6   ESME350LGC224MEADU   220,000   76.2 × 120   0.80   19.8   ESME350LGC234MEEOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   47,000   76.2 × 140   0.25   14.3   ESME101LGC333MEA   27,000   27.2 × 140   0.25   14.3   ESME101LGC683MFE												
180,000   63.5 × 100   0.75   14.7   ESME250LGC184MDAOU   220,000   63.5 × 120   0.80   16.8   ESME250LGC224MDCOU   270,000   76.2 × 100   0.90   18.3   ESME250LGC224MDCOU   330,000   76.2 × 120   1.00   20.7   ESME250LGC334MECOU   390,000   76.2 × 140   1.20   22.1   ESME250LGC394MEEOU   15,000   35 × 50   0.30   3.90   ESME350LGB153MA50U   15,000   35 × 50   0.40   6.00   ESME350LGB339MA80U   39,000   35 × 100   0.40   7.00   ESME350LGB393MA80U   39,000   50 × 120   0.45   8.00   ESME350LGB393MAAOU   47,000   63.5 × 120   0.15   3.40   ESME101LGB822MAC   2,200   35 × 100   0.15   4.20   ESME101LGB822MAC   4,700   35 × 120   0.15   5.00   ESME101LGB822MAC   68,000   50 × 80   0.50   9.00   ESME350LGC39MCAOU   150,000   63.5 × 120   0.70   16.6   ESME350LGC124MDCOU   22,000   76.2 × 140   0.90   22.5   ESME350LGC24MMEAOU   22,000   76.2 × 140   0.90   22.5   ESME350LGC24MMEAOU   27,000   76.2 × 140   0.90   22.5   ESME350LGC234MEAOU   33,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   33,000   76.2 × 140   0.25   14.3   ESME101LGC473MEEOU   33,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   33,000   76.2 × 140   0.25   14.3   ESME101LGC473MEEOU   33,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   33,000   39 × 140   0.30   18.0   ESME101LGC683MFE	25											
220,000   63.5 × 120   0.80   16.8   ESME250LGC224MDC0U   270,000   76.2 × 100   0.90   18.3   ESME250LGC274MEA0U   330,000   76.2 × 120   1.00   20.7   ESME250LGC334MECOU   390,000   76.2 × 140   1.20   22.1   ESME250LGC394MEEOU   560,000   89 × 140   1.50   25.8   ESME250LGC394MEEOU   15,000   35 × 50   0.30   3.90   ESME350LGB153MA50U   33,000   35 × 80   0.40   6.00   ESME350LGB33MA80U   47,000   35 × 120   0.45   8.00   ESME350LGB393MAAOU   47,000   35 × 120   0.45   8.00   ESME350LGC83MC80U   82,000   50 × 120   0.60   12.8   ESME350LGC83MCA0U   150,000   63.5 × 120   0.70   14.0   ESME350LGC154MDAOU   180,000   63.5 × 120   0.70   14.0   ESME350LGC154MDAOU   220,000   76.2 × 120   0.70   16.6   ESME350LGC154MDAOU   220,000   76.2 × 120   0.80   19.8   ESME350LGC274MEAOU   270,000   76.2 × 120   0.80   19.8   ESME350LGC334MEEOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   330,000   76.2 × 140   0.25   14.3   ESME101LGC393MEE							80					
270,000   76.2 × 100   0.90   18.3   ESME250LGC274MEA0U   330,000   76.2 × 120   1.00   20.7   ESME250LGC334MECOU   390,000   76.2 × 140   1.20   22.1   ESME250LGC394MEEOU   560,000   89 × 140   1.50   25.8   ESME250LGC564MFEOU   100,000   89 × 140   0.40   21.0   ESME800LGC823MEE   2,200   35 × 50   0.10   2.50   ESME800LGC104MFE   2,200   35 × 100   0.40   7.00   ESME350LGB333MA80U   47,000   35 × 120   0.45   8.00   ESME350LGC833MCA0U   47,000   50 × 80   0.50   9.00   ESME350LGC833MCA0U   82,000   50 × 100   0.55   10.3   ESME350LGC823MCA0U   120,000   50 × 120   0.60   12.8   ESME350LGC124MCCOU   150,000   63.5 × 120   0.70   14.0   ESME350LGC124MCOU   220,000   76.2 × 120   0.80   19.8   ESME350LGC224MEA0U   270,000   76.2 × 120   0.80   19.8   ESME350LGC234MEEOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   47,000   89 × 140   0.30   18.0   ESME101LGC473MEEOU   47,000   76.2 × 140   0.25   14.3   ESME101LGC473MEEOU   47,000   76.2 × 140   0.20   18.0   ESME101LGC683MFEOU   47,000   76.2 × 140   0.20   18.0   ESME101LGC683MFEOU   47,000   76.2 × 140   0.20   18.0   ESME101LGC683MFEOU   47,000   76.2 × 140   0.30   18.0   ESME101LGC683MFEOU   47,000												
330,000 76.2 × 120 1.00 20.7 ESME250LGC334MECOU 390,000 76.2 × 140 1.20 22.1 ESME250LGC394MEEOU 560,000 89 × 140 1.50 25.8 ESME250LGC564MFEOU  15,000 35 × 50 0.30 3.90 ESME350LGB153MA50U 39,000 35 × 80 0.40 6.00 ESME350LGB333MA80U 39,000 35 × 100 0.40 7.00 ESME350LGB333MA80U 47,000 35 × 120 0.45 8.00 ESME350LGB393MAAOU 68,000 50 × 80 0.50 9.00 ESME350LGC683MC80U 82,000 50 × 100 0.55 10.3 ESME350LGC823MCAOU 100,000 89 × 140 0.40 21.0 ESME800LGC104MFE  2,200 35 × 50 0.10 2.50 ESME101LGB222MA5 35 120,000 63.5 × 120 0.45 8.00 ESME350LGC83MCAOU 100,000 89 × 140 0.40 21.0 ESME80LGC104MFE  2,200 35 × 50 0.10 2.50 ESME101LGB222MA5 6,800 35 × 100 0.15 3.40 ESME101LGB472MA8 8,200 35 × 100 0.15 5.00 ESME101LGB822MAC 8,200 35 × 100 0.15 5.00 ESME101LGB822MAC 10,000 50 × 80 0.20 5.20 ESME101LGC103MC8 110,000 63.5 × 120 0.25 8.60 ESME101LGC23MDA 120,000 63.5 × 120 0.70 14.0 ESME350LGC14MCCOU 150,000 63.5 × 120 0.70 16.6 ESME350LGC154MDAOU 120,000 76.2 × 120 0.80 19.8 ESME350LGC224MEAOU 220,000 76.2 × 120 0.80 19.8 ESME350LGC274MECOU 330,000 76.2 × 120 0.25 12.4 ESME101LGC333MEA 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEEOU  30,000 76.2 × 140 0.20 14.3 ESME101LGC473MEE		-,						,				
390,000   76.2 × 140   1.20   22.1   ESME250LGC394MEE0U   560,000   89 × 140   1.50   25.8   ESME250LGC564MFE0U   100,000   89 × 140   0.40   21.0   ESME800LGC104MFE   15,000   35 × 50   0.30   3.90   ESME350LGB153MA50U   33,000   35 × 80   0.40   6.00   ESME350LGB333MA80U   47,000   35 × 120   0.45   8.00   ESME350LGB393MAA0U   68,000   50 × 80   0.50   9.00   ESME350LGC683MC80U   82,000   50 × 100   0.55   10.3   ESME350LGC823MCA0U   150,000   63.5 × 120   0.60   12.8   ESME350LGC124MCC0U   150,000   63.5 × 120   0.70   16.6   ESME350LGC124MC0U   220,000   76.2 × 120   0.80   19.8   ESME350LGC224MEA0U   270,000   76.2 × 120   0.80   19.8   ESME350LGC233MEEOU   330,000   76.2 × 140   0.30   18.0   ESME10LGC433MEEOU   47,000   76.2 × 140   0.25   14.3   ESME10LGC473MEEOU   47,000   76.2 × 140   0.20   18.0   ESME10LLGC683MFE				_						_		
15,000										_		
15,000   35 × 50   0.30   3.90   ESME350LGB153MA50U   33,000   35 × 80   0.40   6.00   ESME350LGB333MA80U   47,000   35 × 100   0.40   7.00   ESME350LGB393MAA0U   47,000   35 × 120   0.45   8.00   ESME350LGB393MAA0U   68,000   50 × 80   0.50   9.00   ESME350LGC823MCA0U   120,000   50 × 100   0.55   10.3   ESME350LGC823MCA0U   150,000   63.5 × 120   0.70   14.0   ESME350LGC124MCC0U   150,000   63.5 × 120   0.70   14.0   ESME350LGC154MDA0U   180,000   63.5 × 120   0.75   17.3   ESME350LGC224MEA0U   220,000   76.2 × 120   0.80   19.8   ESME350LGC274MECOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEE0U   19.000   89 × 140   0.30   18.0   ESME10LGC683MFE				_							1	
33,000 35 × 80 0.40 6.00 ESME350LGB333MA80U 39,000 35 × 100 0.40 7.00 ESME350LGB393MAA0U 47,000 35 × 120 0.45 8.00 ESME350LGB473MACOU 68,000 50 × 80 0.50 9.00 ESME350LGC83MCA0U 120,000 50 × 120 0.60 12.8 ESME350LGC124MCCOU 150,000 63.5 × 120 0.70 16.6 ESME350LGC184MDAOU 180,000 63.5 × 120 0.75 17.3 ESME350LGC224MEA0U 270,000 76.2 × 120 0.80 19.8 ESME350LGC274MECOU 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEE0U 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEE0U												
39,000 35 × 100 0.40 7.00 ESME350LGB393MAAOU 47,000 35 × 120 0.45 8.00 ESME350LGB473MACOU 68,000 50 × 80 0.50 9.00 ESME350LGC683MC80U 82,000 50 × 100 0.55 10.3 ESME350LGC823MCAOU 150,000 63.5 × 120 0.60 12.8 ESME350LGC124MCCOU 150,000 63.5 × 120 0.70 16.6 ESME350LGC184MDAOU 180,000 63.5 × 120 0.70 16.6 ESME350LGC224MEAOU 270,000 76.2 × 120 0.80 19.8 ESME350LGC274MECOU 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEEOU												
47,000   35 × 120   0.45   8.00   ESME350LGB473MACOU   68,000   50 × 80   0.50   9.00   ESME350LGC683MC80U   82,000   50 × 100   0.55   10.3   ESME350LGC823MCAOU   120,000   50 × 120   0.60   12.8   ESME350LGC124MCCOU   150,000   63.5 × 120   0.70   14.0   ESME350LGC154MDAOU   180,000   63.5 × 120   0.75   17.3   ESME350LGC224MEAOU   220,000   76.2 × 120   0.80   19.8   ESME350LGC274MECOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   8,000   89 × 140   0.30   18.0   ESME101LGC683MFE												
35   68,000   50 × 80   0.50   9.00   ESME350LGC683MC80U   82,000   50 × 100   0.55   10.3   ESME350LGC823MCA0U   120,000   50 × 120   0.60   12.8   ESME350LGC124MCC0U   150,000   63.5 × 120   0.70   14.0   ESME350LGC154MDA0U   180,000   63.5 × 120   0.70   16.6   ESME350LGC184MDC0U   220,000   76.2 × 100   0.75   17.3   ESME350LGC224MEA0U   270,000   76.2 × 120   0.80   19.8   ESME350LGC274MEC0U   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEE0U   100   100   50 × 80   0.20   5.20   ESME101LGC103MC8   18,000   50 × 120   0.20   8.10   ESME101LGC183MCC   22,000   63.5 × 120   0.25   10.3   ESME101LGC273MDC   27,000   63.5 × 120   0.25   10.3   ESME101LGC333MEA   39,000   76.2 × 120   0.25   11.1   ESME101LGC333MEA   39,000   76.2 × 120   0.25   12.4   ESME101LGC393MEC   47,000   76.2 × 140   0.25   14.3   ESME101LGC473MEE   68,000   89 × 140   0.30   18.0   ESME101LGC683MFE												
35   82,000   50 × 100   0.55   10.3   ESME350LGC823MCA0U   120,000   50 × 120   0.60   12.8   ESME350LGC124MCC0U   150,000   63.5 × 100   0.70   14.0   ESME350LGC154MDA0U   180,000   63.5 × 120   0.70   16.6   ESME350LGC184MDC0U   220,000   76.2 × 100   0.75   17.3   ESME350LGC224MEA0U   270,000   76.2 × 120   0.80   19.8   ESME350LGC274MEC0U   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEE0U   100   180,000   89 × 140   0.30   18.0   ESME101LGC33MFE											+	
35								-,			+	
150,000   63.5 × 100   0.70   14.0   ESME350LGC154MDAOU   180,000   63.5 × 120   0.70   16.6   ESME350LGC184MDCOU   220,000   76.2 × 100   0.75   17.3   ESME350LGC224MEAOU   270,000   76.2 × 120   0.80   19.8   ESME350LGC274MECOU   330,000   76.2 × 140   0.90   22.5   ESME350LGC334MEEOU   270,000   89 × 140   0.30   18.0   ESME101LGC683MFE	35						100					
180,000 63.5 × 120 0.70 16.6 ESME350LGC184MDC0U 220,000 76.2 × 100 0.75 17.3 ESME350LGC224MEA0U 270,000 76.2 × 120 0.80 19.8 ESME350LGC274MEC0U 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEE0U  33,000 76.2 × 100 0.25 11.1 ESME101LGC333MEA 39,000 76.2 × 120 0.25 12.4 ESME101LGC393MEC 47,000 76.2 × 140 0.25 14.3 ESME101LGC473MEE 68,000 89 × 140 0.30 18.0 ESME101LGC683MFE	00	-,										
220,000 76.2 × 100 0.75 17.3 ESME350LGC224MEA0U 270,000 76.2 × 120 0.80 19.8 ESME350LGC274MECOU 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEE0U 39,000 76.2 × 140 0.25 14.3 ESME101LGC473MEE 68,000 89 × 140 0.30 18.0 ESME101LGC683MFE											-	
270,000 76.2 × 120 0.80 19.8 ESME350LGC274MEC0U 47,000 76.2 × 140 0.25 14.3 ESME101LGC473MEE 330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEE0U 68,000 89 × 140 0.30 18.0 ESME101LGC683MFE												
330,000 76.2 × 140 0.90 22.5 ESME350LGC334MEE0U 68,000 89 × 140 0.30 18.0 ESME101LGC683MFE		-,										
		-,						,				
14/11/00 69 x 140   100   28 3   LESMESSULGLA/AMERICA		470,000	89 × 140	1.00	28.3	ESME350LGC474MFE0U		00,000	1 00 / 140	0.00	10.0	LOWIL TO TLAGOODIVII LOO

## **◆RATED RIPPLE CURRENT MULTIPLIERS**

### Frequency Multipliers

4									
Rated voltage	Case diameter	Frequency (Hz)							
(V <sub>dc</sub> )	(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.
  - Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific
  - products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
  - 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