

- Endurance with ripple current:5000hours at 85°C
 - Rated voltage range:350to450vdc, capacitance 680to18000μF
 - Improved the resistance for charge and discharge from same dimension of LG series
 - For frequently change of regenerative voltage from AC servo amplifier and inverter control.
- Electricity Giddy Machine. digital a transmitter circuit. supersonic (waves)

◆ SPECIFIC ATIONS

items	Characteristics	
Category temperature Range	-40~+85°C	
Rated voltage Range	350~450VDC	
Capacitance Tolerance	± 20% (M)	at 20°C/120HZ
Leakage Current	I=0.02CV or 5mA, whichever is smaller I: Where, I : Max. leakage current (μA), C: Nominal capacitance (μF), Rated voltage (V)at 20°Cafter 5 minutes)	
Dissipation Factor (tanδ)	≤0.20	at 20°C/120HZ
Low Temperature characteristics	Capacitance change(vdc) C (-25°C) /C (+20°C) ≥0.7 at 20°C/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 500Vdc, the insulation resistance shall not be less than 100mΩ	
Insulation Withstanding Voltage	When a voltage of 2,000Vac 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. .	
Charge and Discharge	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to charge and discharge test with the voltage waveform shown below at room temperature(15to35°C)	
	Capacitance change	≤±20% of the initial value
	D. F. (tanδ)	≤300% of the initial specified value
	Leakage current	≤The initial specified value
	Frequency	3HZ
	Number of cycle	60 million times
		Voltage waveform:
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 (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 85°C.	
	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,	
	Capacitance change	≤±20% of the initial value
	D. F. (tanδ)	≤200% of the initial specified value
	Leakage current	≤The initial specified value
		the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4

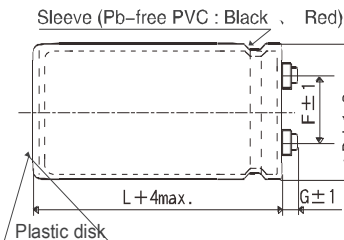
◆ DIMENSIONS[mm]

● Terminal Code : M5

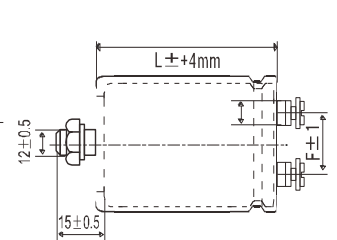
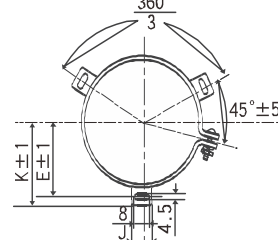
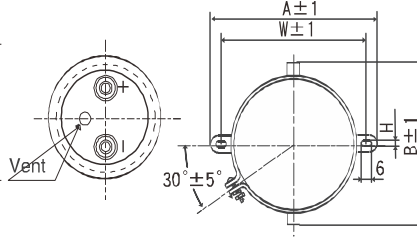
● Mounting Clamp Code : B

● Mounting Clamp Code : C

● NO Mounting Clamp Code : N



035~ 063.5: G=6 076.2~ 089: G=5



Screw specifications

~ Plus hexagon-headed screw M5*0.8*10 M6*1.0*10 0100

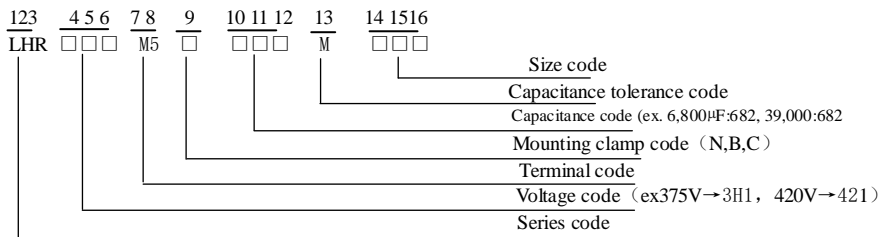
Maximum screw tightening torque 3.23N.m The screw and the mounting clamp are separately supplied and not attached to the product

ØD	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
76.2	104.5	90.0	93.5	4.5	31.5

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



◆PART NUMBERING SYSTEM



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

SRANDRAD RATINGS

W. V [Vdc]	cap [μ F]	Case size D x L [mm]	Rated ripple current(Am s/85°C, 120 HZ)	Max charge Current and Max discharge Current (Arms/3HZ)	Part NO.	W. V [Vdc]	cap [μ F]	Case size D x L [mm]	Rated ripple current(Am s/85°C, 120 HZ)	Max charge Current and Max discharge Current (Arms/3HZ)	Part NO.
350	1200	50*60	4.7	1.56	LHR351M5C122MC60	375	10000	76.2*155	24.2	8.48	LHR3H1M5C103MEF5
	1500	50*70	5.5	1.83	LHR351M5C152MC70		10000	76.2*170	25.2	8.85	LHR3H1M5C103MEH0
	1800	50*80	6.4	2.13	LHR351M5C182MC80		10000	89*130	24.3	8.54	LHR3H1M5C103MFD0
	2200	50*96	7.6	2.53	LHR351M5C222MC96		12000	89*155	28.4	10.0	LHR3H1M5C123MFF5
	2700	50*105	8.8	2.94	LHR351M5C272MCA5		15000	89*170	33.5	11.7	LHR3H1M5C153MFH0
	2700	50*115	9.2	3.06	LHR351M5C272MCB5		15000	89*190	35.2	12.3	LHR3H1M5C153MFK0
	3300	50*130	10.8	3.58	LHR351M5C332MCD0	400	1000	50*60	4.3	1.42	LHR401M5C102MC60
	4700	63.5*115	13.2	4.61	LHR351M5C472MDB5		1200	50*70	4.9	1.64	LHR401M5C122MC70
	5600	63.5*130	15.2	5.30	LHR351M5C562MDD0		1500	50*80	5.8	1.95	LHR401M5C152MC80
	5600	76.2*105	15.2	5.36	LHR351M5C562MEA5		1800	50*96	6.9	2.29	LHR401M5C182MC96
	6800	63.5*155	18.1	6.32	LHR351M5C682MDF5		2200	50*105	8.0	2.65	LHR401M5C222MCA5
	8200	63.5*170	20.7	7.25	LHR351M5C822MDH0		2200	50*115	8.3	2.77	LHR401M5C222MCB5
	8200	76.2*130	20.2	6.57	LHR351M5C822MED0		2700	50*130	9.8	3.23	LHR401M5C272MCD0
	10000	76.2*155	24.2	8.47	LDX351M5C103MEF5		3900	63.5*115	12.0	4.21	LHR401M5C392MDB5
	10000	89*115	23.1	8.10	LHR351M5C103MFB5		4700	63.5*130	13.9	4.86	LHR401M5C472MDD0
	12000	76.2*170	27.6	9.66	LHR351M5C123MEH0		5600	63.5*155	16.4	5.75	LHR401M5C562MDF5
	12000	89*130	26.6	9.33	LHR351M5C123MFD0		5600	63.5*170	17.1	5.99	LHR401M5C562MDH0
	15000	89*155	32.1	11.2	LHR351M5C153MFF5		5600	76.2*105	15.2	5.35	LHR401M5C562MEA5
15000	89*170	33.5	11.7	LHR351M5C153MFH0	6800	76.2*130	18.4	6.47	LHR401M5C682MED0		
18000	89*190	38.5	13.5	LHR351M5C183MFK0	8200	76.2*155	21.9	7.68	LHR401M5C822MEF5		
375	1000	50*60	4.3	1.42	LHR3H1M5C102MC60	8200	76.2*170	22.8	8.02	LHR401M5C822MEH0	
	1200	50*70	4.9	1.64	LHR3H1M5C122MC70	8200	89*115	20.9	7.35	LHR401M5C822MFB5	
	1500	50*80	5.8	1.94	LHR3H1M5C152MC80	10000	89*130	24.3	8.26	LHR401M5C103MFD0	
	2200	50*96	7.6	2.54	LHR3H1M5C222MC96	12000	89*155	28.7	10.0	LHR401M5C123MFF5	
	2200	50*105	8.0	2.65	LHR3H1M5C222MCA5	12000	89*170	29.9	10.5	LHR401M5C123MFH0	
	2700	50*115	9.2	3.06	LHR3H1M5C272MCB5	15000	89*190	31.2	12.3	LHR401M5C153MFK0	
	3300	50*130	10.8	3.58	LHR3H1M5C332MCD0	420	820	50*60	3.8	1.29	LHR421M5C821MC60
	4700	63.5*115	13.2	4.61	LHR3H1M5C472MDB5		1000	50*70	4.4	1.50	LHR421M5C102MC70
	5600	63.5*130	15.2	5.30	LHR3H1M5C562MDD0		1200	50*80	5.2	1.75	LHR421M5C122MC80
	5600	76.2*105	15.2	5.36	LHR3H1M5C562MEA5		1800	50*96	6.8	2.30	LHR421M5C182MC96
	6800	63.5*155	18.1	6.32	LHR3H1M5C682MDF5		1800	50*105	7.1	2.40	LHR421M5C182MCA5
	6800	63.5*170	18.9	6.60	LHR3H1M5C682MDH0		2200	50*115	8.2	2.77	LHR421M5C222MCB5
	8200	76.2*130	20.2	7.09	LHR3H1M5C822MED0		2700	50*130	9.6	3.25	LHR421M5C272MCD0
	8200	89*115	20.9	7.35	LHR3H1M5C822MFB5		3300	63.5*115	11.0	3.87	LHR421M5C332MDB5

STANDARD RATINGS

W. V [Vdc]	cap [μ F]	Case size D x L [mm]	Rated ripple current (Am s/85°C, 120 HZ)	Max charge Current and Max discharge Current (Arms/3HZ)	Part NO.	W. V [Vdc]	cap [μ F]	Case size D x L [mm]	Rated ripple current (Am s/85°C, 120 HZ)	Max charge Current and Max discharge Current (Arms/3HZ)	Part NO.
420	3900	63.5*130	12.7	4.44	LHR421M5C392MDD0	450	1500	50*96	6.2	2.10	LHR451M5C152MC96
	4700	63.5*155	15.0	5.28	LHR421M5C472MDF5		1800	50*115	7.4	2.51	LHR451M5C182MCB5
	4700	76.2*105	13.9	4.92	LHR421M5C472MEA5		2200	50*130	8.7	2.93	LHR451M5C222MCD0
	5600	63.5*170	17.1	6.02	LHR421M5C562MDH0		3300	63.5*115	11.0	3.88	LHR451M5C332MDB5
	5600	76.2*130	16.6	5.90	LHR421M5C562MED0		3900	63.5*130	12.7	4.44	LHR451M5C392MDD0
	6800	76.2*155	19.8	7.02	LHR421M5C682MEF5		3900	76.2*105	13.2	4.49	LHR451M5C392MEA5
	6800	89*115	19.0	6.73	LHR421M5C682MFB5		4700	63.5*155	15.0	5.27	LHR451M5C472MDF5
	8200	76.2*170	22.7	8.04	LHR421M5C822MEH0		4700	63.5*170	15.6	5.50	LHR451M5C472MDH0
	8200	89*130	22.0	7.78	LHR421M5C822MFD0		5600	76.2*130	16.6	5.88	LHR451M5C562MED0
	10000	89*155	26.2	9.24	LHR421M5C103MFF5		6800	76.2*155	19.8	7.04	LHR451M5C682MEF5
	12000	89*170	29.9	10.5	LHR421M5C123MFH0		6800	89*115	19.0	6.72	LHR451M5C682MFB5
	12000	89*190	31.5	11.0	LHR421M5C123MFK0		8200	76.2*170	22.7	7.97	LHR451M5C822MEH0
450	680	50*60	3.1	1.03	LHR451M5C681MC60	8200	89*130	22.0	7.72	LHR451M5C822MFD0	
	820	50*60	3.8	1.29	LHR451M5C821MC60	10000	89*155	26.2	9.22	LHR451M5C103MFF5	
	1000	50*70	4.4	1.50	LHR451M5C102MC70	10000	89*170	27.3	9.66	LHR451M5C103MFH0	
	1200	50*80	5.2	1.74	LHR451M5C122MC80	12000	89*190	31.5	11.1	LHR451M5C123MFK0	

◆ RTED RIPPLE CURRENT MULTIPLIERS

The ripple frequency and standard list of the specified value is not at the same time, please use the value is less than the following

- Frequency Multiplier

Frequency (HZ)	50	120	300	1K	3K
coefficient	0.8	1.0	1.1	1.3	1.4

Note : The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5 to 10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced. Also, for the LG and LHD series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For the details, please contact representative of capsun