LCS series capsun
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Long life

- **Downsized,high ripple version of LNB series**
- **20%better ripple current at 300HZ than LNB series**
- Endurance with ripple current:5000 hours at 85℃ RoHS compliant
- Applicable to Intermediate frequency electric furnace main control cabinet

Quick start charger, CO2 shield welder, Inverter spot welder

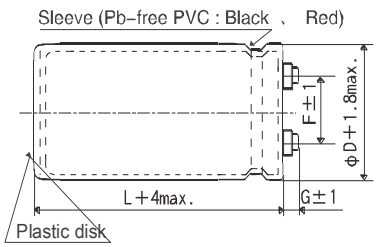
Downsized | High ripple current | RoHS

◆SPECIFICATIONS

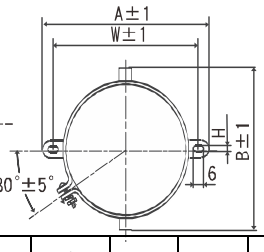
items	characteristics
Category temperature Range	-25~+85℃
Rated voltage Range	350~450$_{VDC}$
Capacitance Tolerance	± 20%（M） at 20℃/120HZ
Leakage Current	I=0.02CV or 5mA,whichever is smaller I: Where, I : Max. leakage current（μA）、C: Nominal capacitance（μF）、Rated voltage (V)at 20℃after 5 minutes)
Dissipation Factor（tanδ）	0.25max at 20℃/120HZ
Low Temperature characteristics	Capacitance change C（-25℃）/C（+20℃）≥0.7 at 20℃/120HZ
Insulation Resistance	When measured between the terminals that are connected to each other and to the mounting damp 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.。
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 85℃。 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℃ after exposing them for 1000 hours at 85℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4 Capacitance change: ≤±20% of the initial value D.F. (tanδ): ≤150% of the initial specified value Leakage current: ≤The initial specified value

◆ DIMENSIONS[mm]

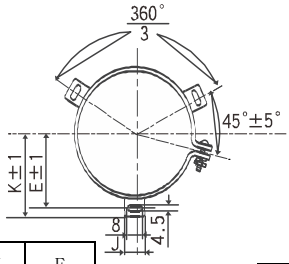
● Terminal Code : M5



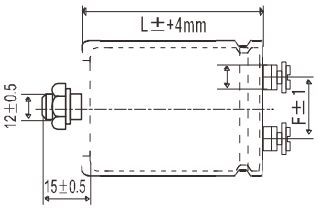
● Mounting Clamp Code : B



● Mounting Clamp Code : C



● NO Mounting Clamp Code : N



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
100	56.5	63.4	41.5	18.0

Ø35~ Ø63.5：G=6

Ø76.2~ Ø89：G=5

Screw specifications

~ ~ Plus hexagon-headed screw M5*0.8*10 M6*1.0*10 Ø100

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

◆OART NUMBERING SYSTEM

123	456	78	9	101112	13	141516
LCS	□□□	M5	□	□□□	M	□□□

Size code
Capacitance tolerance code
Capacitance code (ex. 6,800μF:682, 39,000:682
Mounting clamp code（N,B,C）
Terminal code
Voltage code（ex350V→351， 400V→401
Series code

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

SRANDRAD RATINGS

W.V [Vdc]	cap [μF]	Case size D x L [mm]	tanδ 120HZ,20℃	Rated ripple currentAms/85℃ 120HZ	300HZ	Part NO.
350	2200	50*96	0.25	7.7	9.2	LCS351M5C222MC96
	2700	50*105	0.25	8.9	10.6	LCS351M5C272MCA5
	3300	50*115	0.25	10.3	12.3	LCS351M5C332MCB5
	3900	50*130	0.25	11.8	14.1	LCS351M5C392MCD0
	4700	63.5*115	0.25	13.6	16.3	LCS351M5C472MDB5
	5600	63.5*130	0.25	15.7	18.8	LCS351M5C562MDD0
	6800	63.5*155	0.25	18.8	22.5	LCS351M5C682MDF5
	6800	76.2*115	0.25	18.2	21.8	LCS351M5C682MEB5
	8200	63.5*190	0.25	22.6	27.1	LCS351M5C822MDK0
	8200	76.2*130	0.25	21	25.2	LCS351M5C822MED0
	10000	76.2*155	0.25	25.1	30.1	LCS351M5C103MEF5
	12000	76.2*170	0.25	28.7	34.4	LCS351M5C123MEH0
	15000	89*155	0.25	33.6	40.3	LCS351M5C153MFF5
	15000	89*170	0.25	35	42	LCS351M5C153MFH0
	18000	89*190	0.25	40.3	48.3	LCS351M5C183MFK0
400	1800	50*96	0.25	7	8.4	LCS401M5C182MC96
	2200	50*105	0.25	8.1	8.4	LCS401M5C222MCA5
	2700	50*115	0.25	9.3	11.1	LCS401M5C272MCB5
	3300	50*130	0.25	10.9	13	LCS401M5C332MCD0
	3900	63.5*115	0.25	12.4	14.8	LCS401M5C392MDB5
	4700	63.5*130	0.25	14.4	17.2	LCS401M5C472MDD0
	5600	63.5*155	0.25	17	20.4	LCS401M5C562MDF5
	5600	76.2*115	0.25	16.5	19.8	LCS401M5C562MEB5
400	6800	63.5*190	0.25	20.6	24.7	LCS401M5C682MDK0
	6800	76.2*130	0.25	19.2	23	LCS401M5C682MED0
	8200	76.2*155	0.25	22.7	27.2	LCS401M5C822MEF5
	10000	76.2*170	0.25	26.2	31.4	LCS401M5C103MEH0
	12000	89*155	0.25	30	36	LCS401M5C123MFF5
	12000	89*170	0.25	31.3	37.5	LCS401M5C123MFH0
	15000	89*190	0.25	36.7	44	LCS401M5C153MFK0
450	1500	50*96	0.25	6.4	7.6	LCS451M5C152MC96
	1800	50*105	0.25	7.3	8.7	LCS451M5C182MCA5
	2200	50*115	0.25	8.4	10	LCS451M5C222MCB5
	2700	50*130	0.25	9.8	11.7	LCS451M5C272MCD0
	3300	63.5*115	0.25	11.4	13.6	LCS451M5C332MDB5
	3900	63.5*130	0.25	13.1	15.7	LCS451M5C392MDD0
	4700	63.5*155	0.25	15.6	18.7	LCS451M5C472MDF5
	4700	76.2*115	0.25	15.1	18.1	LCS451M5C472MEB5
	5600	63.5*190	0.25	18.7	22.4	LCS451M5C562MDK0
	5600	76.2*130	0.25	17.4	20.8	LCS451M5C562MED0
	6800	76.2*155	0.25	20.7	24.8	LCS451M5C682MEF5
	8200	76.2*170	0.25	23.7	28.4	LCS451M5C822MEH0
	10000	89*155	0.25	27.4	32.8	LCS451M5C103MFF5
	10000	89*170	0.25	28.6	34.3	LCS451M5C103MFH0
	12000	89*190	0.25	32.9	39.4	LCS451M5C123MFK0

◆ RTED RIPPLE CURRENT MUIERS

- Frequency Multipliers

Frequency（HZ）	50	120	300	1K	3K
coefficient	0.8	1.0	1.2	1.4	1.5

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℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced. Also, for the LNB series capacitors, using them at operating voltage less than their rated voltage can extend their lifetime. For the details, please contact representative of capsun。