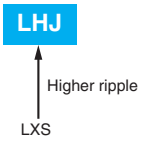
LHJ New! Series

- Higher ripple current from LXS series
- Endurance with ripple current : 5,000 hours at 105℃
- Rated voltage range : 400 to 450Vdc, Capacitance range : 220 to 810μF
- For inverter control, switching power supplies
- Non solvent resistant type
- RoHS2 Compliant

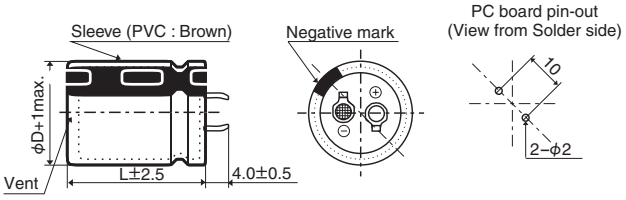


◆SPECIFICATIONS

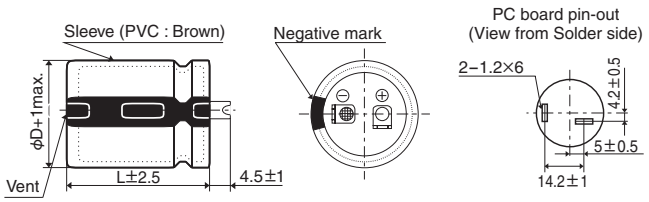
Items	Characteristics			
Category Temperature Range	-40 to +105℃			
Rated Voltage Range	400 to 450Vdc			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (Vdc)	400V	420 & 450V	
	tan δ (Max.)	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (Vdc)	400V	420 & 450V	
	Z(-25℃)/Z(+20℃)	3	8	
	Z(-40℃)/Z(+20℃)	12	14	(at 120Hz)
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 105℃.			
	Capacitance change	≦±20% of the initial value		
	D.F. (tan δ)	≦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 1,000 hours at 105℃ 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	≦±15% of the initial value		
	D.F. (tan δ)	≦150% of the initial specified value		
	Leakage current	≦The initial specified value		

◆DIMENSIONS [mm]

●Terminal Code : VS (φ30, φ35) : Standard

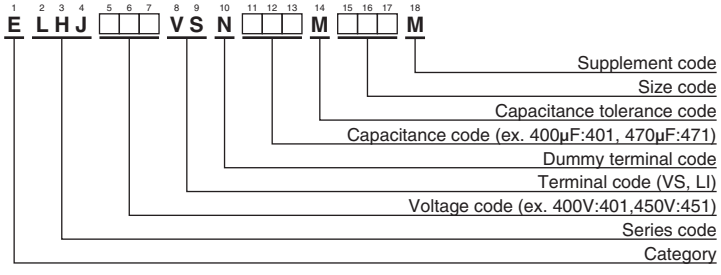


●Terminal Code : LI (φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

LHJ New! Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
400	280	30 × 35	0.15	2.31	ELHJ401VSN281MR35M
	350	30 × 41	0.15	2.67	ELHJ401VSN351MR41M
	400	30 × 46	0.15	2.92	ELHJ401VSN401MR46M
	400	35 × 35	0.15	2.92	ELHJ401VSN401MA35M
	470	30 × 51	0.15	3.23	ELHJ401VSN471MR51M
	500	35 × 41	0.15	3.39	ELHJ401VSN501MA41M
	510	30 × 54	0.15	3.41	ELHJ401VSN511MR54M
	570	30 × 59	0.15	3.66	ELHJ401VSN571MR59M
	570	35 × 46	0.15	3.70	ELHJ401VSN571MA46M
	670	35 × 51	0.15	4.12	ELHJ401VSN671MA51M
	720	35 × 54	0.15	4.32	ELHJ401VSN721MA54M
	810	35 × 59	0.15	4.66	ELHJ401VSN811MA59M
420	240	30 × 35	0.20	2.07	ELHJ421VSN241MR35M
	300	30 × 41	0.20	2.39	ELHJ421VSN301MR41M
	340	30 × 46	0.20	2.60	ELHJ421VSN341MR46M
	350	35 × 35	0.20	2.57	ELHJ421VSN351MA35M
	410	30 × 51	0.20	2.92	ELHJ421VSN411MR51M
	430	35 × 41	0.20	2.95	ELHJ421VSN431MA41M

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
420	440	30 × 54	0.20	3.06	ELHJ421VSN441MR54M
	490	30 × 59	0.20	3.28	ELHJ421VSN491MR59M
	490	35 × 46	0.20	3.22	ELHJ421VSN491MA46M
	580	35 × 51	0.20	3.60	ELHJ421VSN581MA51M
	620	35 × 54	0.20	3.76	ELHJ421VSN621MA54M
	700	35 × 59	0.20	4.06	ELHJ421VSN701MA59M
450	220	30 × 35	0.20	1.98	ELHJ451VSN221MR35M
	280	30 × 41	0.20	2.31	ELHJ451VSN281MR41M
	310	30 × 46	0.20	2.48	ELHJ451VSN311MR46M
	320	35 × 35	0.20	2.45	ELHJ451VSN321MA35M
	370	30 × 51	0.20	2.77	ELHJ451VSN371MR51M
	400	30 × 54	0.20	2.91	ELHJ451VSN401MR54M
	400	35 × 41	0.20	2.85	ELHJ451VSN401MA41M
	450	30 × 59	0.20	3.14	ELHJ451VSN451MR59M
	450	35 × 46	0.20	3.09	ELHJ451VSN451MA46M
	530	35 × 51	0.20	3.44	ELHJ451VSN531MA51M
	570	35 × 54	0.20	3.61	ELHJ451VSN571MA54M
	640	35 × 59	0.20	3.89	ELHJ451VSN641MA59M

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
400 to 450V	0.72	1.00	1.21	1.38	1.48	1.46