LHS Series Upgrade!

- The lower temperature range of the category temperature range has been expended.
- For solar power generation
- Endurance with ripple current : 5,000 hours at 105℃
- Rated voltage range : 450 to 500V
- For inverter control, switching power supplies
- Non solvent resistant type
- RoHS2 Compliant

LHS
↑ Downsizing
LXS
↑ Longer life
KMS

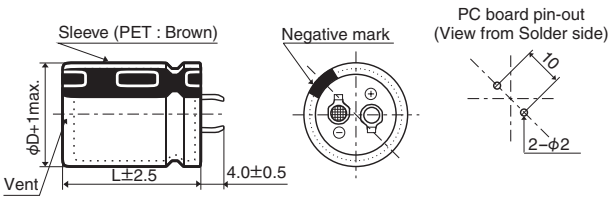
500V Lineup!

◆SPECIFICATIONS

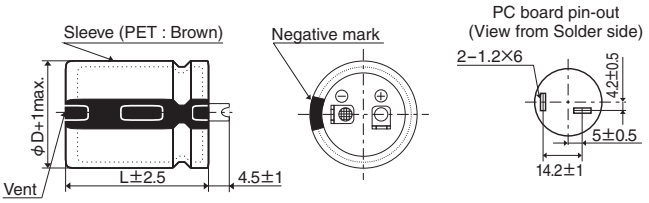
Items	Characteristics		
Category Temperature Range	-40 to +105℃		
Rated Voltage Range	450 to 500V_{dc}		
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)		(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (V_{dc})	450 to 500V	
	tan δ (Max.)	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V_{dc})	450 to 500V	
	Z(-25℃)/Z(+20℃)	8	(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 (475, 500V_{dc} : ≦ 250%)	
	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 (φ22 to φ35) : Standard

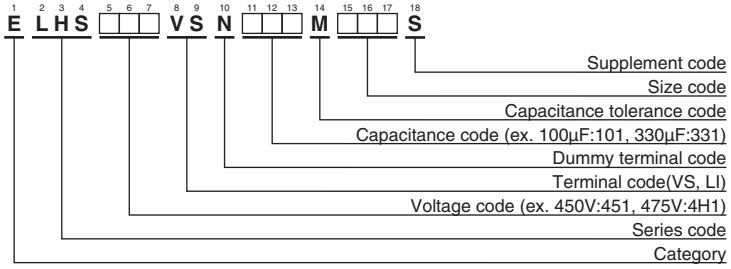


●Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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

LHS Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
450	100	22 × 25	0.20	0.71	ELHS451VSN101MP25S
	120	22 × 30	0.20	0.81	ELHS451VSN121MP30S
	150	22 × 35	0.20	0.93	ELHS451VSN151MP35S
	150	25.4 × 25	0.20	0.93	ELHS451VSN151MQ25S
	180	22 × 40	0.20	1.04	ELHS451VSN181MP40S
	180	25.4 × 30	0.20	1.05	ELHS451VSN181MQ30S
	220	22 × 45	0.20	1.17	ELHS451VSN221MP45S
	220	25.4 × 35	0.20	1.21	ELHS451VSN221MQ35S
	220	30 × 25	0.20	1.15	ELHS451VSN221MR25S
	270	22 × 50	0.20	1.33	ELHS451VSN271MP50S
	270	25.4 × 40	0.20	1.36	ELHS451VSN271MQ40S
	270	30 × 30	0.20	1.29	ELHS451VSN271MR30S
	270	35 × 25	0.20	1.25	ELHS451VSN271MA25S
	330	22 × 60	0.20	1.54	ELHS451VSN331MP60S
	330	25.4 × 45	0.20	1.54	ELHS451VSN331MQ45S
	330	25.4 × 50	0.20	1.56	ELHS451VSN331MQ50S
	330	30 × 35	0.20	1.46	ELHS451VSN331MR35S
	330	35 × 30	0.20	1.41	ELHS451VSN331MA30S
	390	25.4 × 60	0.20	1.74	ELHS451VSN391MQ60S
	390	30 × 40	0.20	1.63	ELHS451VSN391MR40S
	470	30 × 45	0.20	1.84	ELHS451VSN471MR45S
	470	30 × 50	0.20	1.87	ELHS451VSN471MR50S
	470	35 × 35	0.20	1.71	ELHS451VSN471MA35S
	560	35 × 40	0.20	1.95	ELHS451VSN561MA40S
	560	35 × 45	0.20	1.99	ELHS451VSN561MA45S
	680	30 × 60	0.20	2.33	ELHS451VSN681MR60S
	680	35 × 50	0.20	2.22	ELHS451VSN681MA50S
	820	35 × 60	0.20	2.52	ELHS451VSN821MA60S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
475	150	30 × 25	0.20	1.01	ELHS4H1VSN151MR25S
	180	30 × 30	0.20	1.11	ELHS4H1VSN181MR30S
	180	35 × 25	0.20	1.08	ELHS4H1VSN181MA25S
	220	30 × 35	0.20	1.26	ELHS4H1VSN221MR35S
	270	30 × 40	0.20	1.44	ELHS4H1VSN271MR40S
	270	35 × 30	0.20	1.35	ELHS4H1VSN271MA30S
	330	30 × 45	0.20	1.63	ELHS4H1VSN331MR45S
	330	35 × 35	0.20	1.51	ELHS4H1VSN331MA35S
	390	30 × 50	0.20	1.80	ELHS4H1VSN391MR50S
	390	35 × 40	0.20	1.70	ELHS4H1VSN391MA40S
	470	30 × 60	0.20	2.05	ELHS4H1VSN471MR60S
	470	35 × 45	0.20	1.91	ELHS4H1VSN471MA45S
	470	35 × 50	0.20	1.95	ELHS4H1VSN471MA50S
	560	35 × 60	0.20	2.21	ELHS4H1VSN561MA60S
500	120	30 × 25	0.20	0.90	ELHS501VSN121MR25S
	150	30 × 30	0.20	1.02	ELHS501VSN151MR30S
	150	35 × 25	0.20	0.99	ELHS501VSN151MA25S
	180	30 × 35	0.20	1.14	ELHS501VSN181MR35S
	220	30 × 40	0.20	1.30	ELHS501VSN221MR40S
	220	35 × 30	0.20	1.22	ELHS501VSN221MA30S
	270	30 × 45	0.20	1.47	ELHS501VSN271MR45S
	270	35 × 35	0.20	1.37	ELHS501VSN271MA35S
	330	30 × 50	0.20	1.66	ELHS501VSN331MR50S
	330	35 × 40	0.20	1.57	ELHS501VSN331MA40S
	390	30 × 60	0.20	1.87	ELHS501VSN391MR60S
	390	35 × 45	0.20	1.74	ELHS501VSN391MA45S
	470	35 × 50	0.20	1.95	ELHS501VSN471MA50S
	560	35 × 60	0.20	2.21	ELHS501VSN561MA60S

◆RATED RIPPLE CURRENT MULTIPLIERS

◎Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
450V_{dc}	0.77	1.00	1.16	1.30	1.41	1.43
475, 500V_{dc}	0.70	1.00	1.16	1.30	1.41	1.43

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

Mouser Electronics

Authorized Distributor

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United Chemi-Con (UCC):

ELHS451VSN101MP25S ELHS451VSN331MA30S ELHS501VSN391MA45S ELHS4H1VSN331MR45S
ELHS451VSN471MA35S ELHS451VSN471MR45S ELHS451VSN181MQ30S ELHS4H1VSN471MR60S
ELHS4H1VSN471MA50S ELHS451VSN151MQ25S ELHS4H1VSN181MA25S ELHS4H1VSN271MA30S
ELHS501VSN271MR45S ELHS451VSN221MR25S ELHS501VSN151MA25S ELHS501VSN561MA60S
ELHS451VSN331MP60S ELHS501VSN221MR40S ELHS4H1VSN561MA60S ELHS451VSN331MR35S
ELHS451VSN681MR60S ELHS4H1VSN221MR35S ELHS451VSN181MP40S ELHS501VSN331MA40S
ELHS451VSN221MP45S ELHS501VSN221MA30S ELHS4H1VSN151MR25S ELHS501VSN391MR60S
ELHS451VSN331MQ50S ELHS501VSN121MR25S ELHS451VSN151MP35S ELHS4H1VSN331MA35S
ELHS501VSN271MA35S ELHS4H1VSN391MR50S ELHS451VSN271MP50S ELHS451VSN821MA60S
ELHS451VSN271MA25S ELHS501VSN471MA50S ELHS4H1VSN391MA40S ELHS451VSN121MP30S
ELHS451VSN271MR30S ELHS501VSN181MR35S ELHS451VSN681MA50S ELHS501VSN331MR50S
ELHS451VSN391MQ60S ELHS4H1VSN181MR30S ELHS451VSN561MA40S ELHS451VSN331MQ45S
ELHS451VSN391MR40S ELHS451VSN471MR50S ELHS4H1VSN271MR40S ELHS451VSN271MQ40S
ELHS501VSN151MR30S ELHS4H1VSN471MA45S ELHS451VSN221MQ35S ELHS451VSN561MA45S

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9