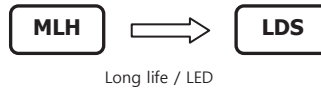




LDS series

- Long Life
- High Ripple
- RoHS Compliant

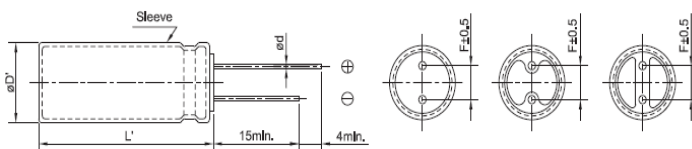
- 105°C 6,000Hrs assured.
- Long life, High ripple
- For LED Light, LED power
- RoHS compliant
- Halogen-free capacitors are also available.



Specifications

Item	Characteristics		
Rated Voltage Range	160 ~ 400 Vdc	450 ~ 500 Vdc	
Operating Temperature Range	-40 ~ +105°C	-25 ~ +105°C	
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)		
Leakage Current	I=0.01CV+10(μA) at 160~400Vdc, I=0.03CV+10(μA) at 450~500Vdc (at 20°C, 2min) Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(Vdc)		
Dissipation Factor(Tanδ)	Rated voltage (Vdc)	160 ~ 400	450 ~ 500
	Tanδ (max.)	0.08	0.12
Temperature characteristics (Max,impedance ratio)	Rated voltage (Vdc)	160 ~ 250	350 ~ 400
	Z(-25°C)/Z(20°C)	3	5
	Z(-40°C)/Z(20°C)	6	6
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times at 105°C6,000hrs.		
	Capacitance change	≤±20% of the initial value	
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements.		
	Capacitance change	≤±20% of the initial value	

Dimensions

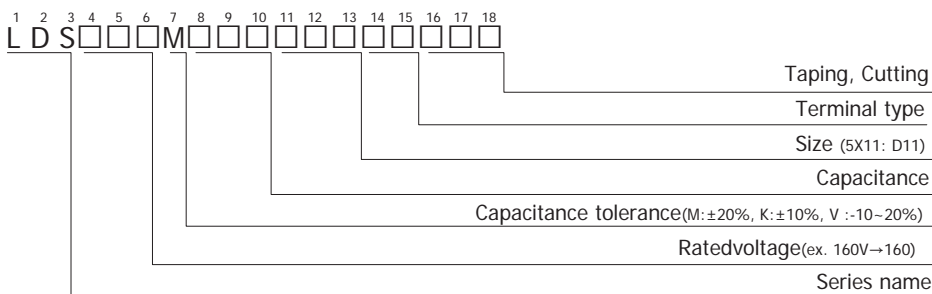


Unit(mm)

	8	10	12.5	16	18	20	22
ØD	8	10	12.5	16	18	20	22
Ød	0.6	0.6	0.6	0.8	0.8	0.8	0.8
F	3.5	5.0	5.0	7.5	7.5	7.5	10.0
ØD'	ØD+0.5 max.						
L'	L+1.5 max		L+2.0 max				

- Printed gold color letter on PET dark green sleeve

Code numbering system



Ø8	F
Ø10	G
Ø12.5	X
Ø16	J
Ø18	K
Ø20	L
Ø22	M



LDS series ■ Standard Ratings

Note1) Ripple current = mArms/105°C,100kHz

VV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
0	1.0	6.3 x 12	0.08	40	LDS160□1R0E12CS□□□□
	1.5	6.3 x 12	0.08	50	LDS160□1R5E12CS□□□□
	1.8	6.3 x 12	0.08	56	LDS160□1R8E012CS□□□□
	2.2	6.3 x 12	0.08	60	LDS160□2R2E12CS□□□□
	2.8	6.3 x 12	0.08	65	LDS160□2R8E12CS□□□□
	3.3	6.3 x 12	0.08	68	LDS160□3R3E12CS□□□□
	4.7	6.3 x 12	0.08	72	LDS160□4R7E12CS□□□□
	5.6	8 x 12	0.08	76	LDS160□5R6F12CS□□□□
	6.8	8 x 12	0.08	96	LDS160□6R8F12CS□□□□
	10	8 x 12	0.08	206	LDS160□1R0E12CS□□□□
		8 x 16	0.08	216	LDS160□100F12CS□□□□
	15	8 x 16	0.08	225	LDS160□100F16CS□□□□
		8 x 20	0.08	360	LDS160□220F20CS□□□□
	22	10 x 16	0.08	360	LDS160□220G16CS□□□□
		10 x 20	0.08	450	LDS160□330G20CS□□□□
	47	10 x 20	0.08	500	LDS160□470G20CS□□□□
68	12.5 x 20	0.08	600	LDS160□680X20CS□□□□	
	12.5 x 25	0.08	722	LDS160□101X25CS□□□□	
100	16 x 20	0.08	722	LDS160□101G20CS□□□□	
	16 x 25	0.08	798	LDS160□151G25CS□□□□	
200	1.0	6.3 x 12	0.08	42	LDS200□1R0E12CS□□□□
	1.5	6.3 x 12	0.08	54	LDS200□1R0E12CS□□□□
	1.8	6.3 x 12	0.08	60	LDS200□1R0E12CS□□□□
	2.2	6.3 x 12	0.08	68	LDS200□1R0E12CS□□□□
	3.3	6.3 x 12	0.08	72	LDS200□1R0E12CS□□□□
	4.7	6.3 x 12	0.08	78	LDS200□1R0E12CS□□□□
	5.6	8 x 12	0.08	98	LDS200□1R0E12CS□□□□
	6.8	8 x 16	0.08	103	LDS200□1R0E12CS□□□□
	10	8 x 16	0.08	189	LDS200□1R0E12CS□□□□
	15	8 x 16	0.08	213	LDS200□1R0E12CS□□□□
		8 x 20	0.08	250	LDS200□1R0E12CS□□□□
	22	8 x 20	0.08	380	LDS200□1R0E12CS□□□□
		10 x 16	0.08	380	LDS200□1R0E12CS□□□□
	33	10 x 20	0.08	450	LDS200□1R0E12CS□□□□
	47	12.5 x 20	0.08	580	LDS200□1R0E12CS□□□□
	68	12.5 x 25	0.08	665	LDS200□1R0E12CS□□□□
100	16 x 25	0.08	760	LDS200□1R0E12CS□□□□	
150	16 x 30	0.08	895	LDS200□1R0E12CS□□□□	
250	1.0	6.3 x 12	0.08	46	LDS250□1R0E12CS□□□□
	1.5	6.3 x 12	0.08	58	LDS250□1R5E12CS□□□□
	1.8	6.3 x 12	0.08	62	LDS250□1R8E12CS□□□□
	2.2	6.3 x 12	0.08	75	LDS250□2R2E12CS□□□□
	2.8	6.3 x 12	0.08	78	LDS250□2R8E12CS□□□□
	3.3	6.3 x 12	0.08	83	LDS250□3R3E12CS□□□□
	4.7	8 x 12	0.08	102	LDS250□4R7F12CS□□□□
	5.6	8 x 12	0.08	105	LDS250□5R6F12CS□□□□
	6.8	8 x 16	0.08	115	LDS250□6R8F16CS□□□□
	8.2	8 x 16	0.08	120	LDS250□8R2F16CS□□□□
	10	8 x 16	0.08	150	LDS250□100F16CS□□□□
	15	8 x 20	0.08	367	LDS250□150F20CS□□□□
	22	10 x 16	0.08	430	LDS250□220G16CS□□□□
		12.5 x 20	0.08	535	LDS250□330X20CS□□□□
	47	12.5 x 20	0.08	627	LDS250□470X20CS□□□□
		12.5 x 25	0.08	660	LDS250□470X25CS□□□□
68	16 x 25	0.08	720	LDS250□680G25CS□□□□	
100	16 x 30	0.08	836	LDS250□101G30CS□□□□	
150	16 x 35	0.08	978	LDS250□151G35CS□□□□	
350	1.0	6.3 x 12	0.08	50	LDS350□1R0E12CS□□□□
	1.5	6.3 x 12	0.08	52	LDS350□1R5E12CS□□□□
	1.8	6.3 x 12	0.08	54	LDS350□1R8E12CS□□□□
	2.2	6.3 x 12	0.08	57	LDS350□2R2E12CS□□□□
	2.8	8 x 12	0.08	65	LDS350□2R8F12CS□□□□
	3.3	8 x 12	0.08	72	LDS350□3R3F12CS□□□□

VV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
350	4.7	8 x 12	0.08	85	LDS350□4R7F12CS□□□□
	5.6	8 x 16	0.08	103	LDS350□5R6F16CS□□□□
	6.8	8 x 20	0.08	128	LDS350□6R8F20CS□□□□
	8.2	8 x 20	0.08	144	LDS350□8R2F20CS□□□□
	10	8 x 20	0.08	207	LDS350□100F20CS□□□□
	15	10 x 20	0.08	285	LDS350□150G20CS□□□□
	22	12.5 x 20	0.08	410	LDS350□220X20CS□□□□
	33	12.5 x 25	0.08	480	LDS350□330X25CS□□□□
	47	16 x 20	0.08	550	LDS350□470G20CS□□□□
	68	18 x 20	0.08	700	LDS350□680K20CS□□□□
	100	18 x 30	0.08	900	LDS350□101K30CS□□□□
	400	1.0	6.3 x 12	0.08	59
1.2		6.3 x 12	0.08	63	LDS400□1R2E12CS□□□□
1.5		8 x 12	0.08	72	LDS400□1R5F12CS□□□□
1.8		8 x 12	0.08	75	LDS400□1R8F12CS□□□□
2.2		6.3 x 12	0.08	68	LDS400□2R2E12CS□□□□
		8 x 12	0.08	78	LDS400□2R2F12CS□□□□
2.8		8 x 16	0.08	85	LDS400□2R8F16CS□□□□
		8 x 12	0.08	91	LDS400□3R3F12CS□□□□
3.3		8 x 16	0.08	95	LDS400□3R3F16CS□□□□
		8 x 12	0.08	104	LDS400□4R7F12CS□□□□
4.7		8 x 16	0.08	110	LDS400□4R7F16CS□□□□
		8 x 20	0.08	138	LDS400□5R6G20CS□□□□
5.6		10 x 16	0.08	138	LDS400□5R6G16CS□□□□
		8 x 20	0.08	148	LDS400□6R8F20CS□□□□
6.8		10 x 16	0.08	148	LDS400□6R8G16CS□□□□
		10 x 16	0.08	218	LDS400□8R2G16CS□□□□
8.2		10 x 20	0.08	230	LDS400□8R2G20CS□□□□
		10 x 16	0.08	226	LDS400□100G16CS□□□□
10		10 x 20	0.08	238	LDS400□100G20CS□□□□
		12.5 x 20	0.08	300	LDS400□150X20CS□□□□
22	12.5 x 25	0.08	380	LDS400□220X25CS□□□□	
	16 x 20	0.08	380	LDS400□220J20CS□□□□	
33	16 x 25	0.08	550	LDS400□330J25CS□□□□	
	16 x 30	0.08	579	LDS400□330J30CS□□□□	
47	12.5 x 40	0.08	630	LDS400□470X40CS□□□□	
	16 x 35	0.08	637	LDS400□470J35CS□□□□	
68	18 x 30	0.08	760	LDS400□680K30CS□□□□	
100	18 x 40	0.08	1,100	LDS400□101K40CS□□□□	
450	1.0	8 x 12	0.12	60	LDS450□1R0F12CS□□□□
	1.5	8 x 12	0.12	70	LDS450□1R5F12CS□□□□
	1.8	8 x 12	0.12	72	LDS450□1R8F12CS□□□□
	2.2	8 x 16	0.12	75	LDS450□2R2F16CS□□□□
	2.8	8 x 16	0.12	79	LDS450□2R8F16CS□□□□
	3.3	8 x 16	0.12	86	LDS450□3R3F16CS□□□□
	4.7	8 x 20	0.12	99	LDS450□4R7F20CS□□□□
	5.6	10 x 16	0.12	115	LDS450□5R6G16CS□□□□
	6.8	10 x 20	0.12	158	LDS450□6R8G20CS□□□□
	8.2	10 x 20	0.12	209	LDS450□8R2G20CS□□□□
	10	10 x 20	0.12	225	LDS450□100G20CS□□□□
	15	12.5 x 20	0.12	332	LDS450□150X20CS□□□□
	22	12.5 x 25	0.12	427	LDS450□220X25CS□□□□
		10 x 45	0.12	510	LDS450□330G45CS□□□□
	33	16 x 25	0.12	522	LDS450□330J25CS□□□□
		12.5 x 45	0.12	660	LDS450□470X45CS□□□□
47	16 x 35	0.12	700	LDS450□470J35CS□□□□	
	18 x 30	0.12	769	LDS450□680K30CS□□□□	
100	18 x 40	0.12	950	LDS450□101K40CS□□□□	
500	10	12.5 x 20	0.20	259	LDS500□100X20CS□□□□
		12.5 x 25	0.20	272	LDS500□100X25CS□□□□
	15	12.5 x 25	0.20	356	LDS500□150X25CS□□□□
16 x 20		0.20	356	LDS500□150J20CS□□□□	



LDS series

Standard Ratings

Note1) Ripple current = mArms/105°C,100kH

WV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
500	22	12.5 x 35	0.20	453	LDS500□220X35CS□□□
		16 x 25	0.20	453	LDS500□220J25CS□□□
	33	18 x 25	0.20	567	LDS500□330K25CS□□□
	47	18 x 30	0.20	713	LDS500□470K30CS□□□
	68	22 x 30	0.20	1,000	LDS500□680L30CS□□□
	100	22 x 35	0.20	1,400	LDS500□101L35CS□□□

Rated ripple current multipliers

Frequency(Hz)	120	1K	10K	50K	100K
Factor	0.5	0.8	0.9	0.95	1.0