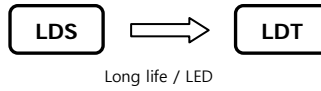


LDT series

- Long Life
- High Ripple
- RoHS Compliant

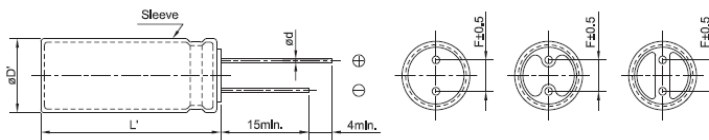
- 105°C 12,000Hrs assured.
- Long life, High ripple
- For LED Light, LED power
- RoHS compliant
- Halogen-free capacitors are also available.



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=0.02CV+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
	Tan δ (max.)	0.08	0.12	0.20
Temperature characteristics (Max,impedance ratio)	Rated voltage (Vdc)	160 ~ 250	350 ~ 400	450 ~ 500
	Z(-25°C)/Z(20°C)	3	5	6
	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°C12,000hrs. Capacitance change ≤±20%of the initial value 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°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 Tanδ ≤200% of the initial specified value Leakage current ≤200%The initial specified value			

Dimensions

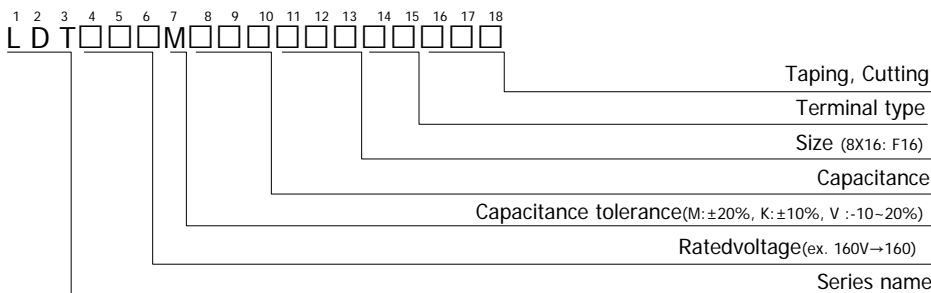


Unit(mm)

ØD	8	10	12.5	16	18	20	22
Ød	0.5	0.6	0.6	0.6	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 black color letter on PET red sleeve

Code numbering system



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



LDT series

Standard Ratings

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

VV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
160	1.0	6.3 x 12	0.08	50	LDT160□1R0E12CS□□□
	1.5	6.3 x 12	0.08	55	LDT160□1R5E12CS□□□
	1.8	6.3 x 12	0.08	63	LDT160□1R8E12CS□□□
	2.2	6.3 x 12	0.08	70	LDT160□2R2E12CS□□□
	2.8	6.3 x 12	0.08	75	LDT160□2R8E12CS□□□
	3.3	6.3 x 12	0.08	79	LDT160□3R3E12CS□□□
	4.7	8 x 12	0.08	86	LDT160□4R7F12CS□□□
	5.6	8 x 12	0.08	97	LDT160□5R6F12CS□□□
	6.8	8 x 16	0.08	110	LDT160□6R8F16CS□□□
	10	8 x 16	0.08	225	LDT160□100F16CS□□□
	15	8 x 16	0.08	288	LDT160□150F16CS□□□
	22	10 x 16	0.08	475	LDT160□220G16CS□□□
	33	10 x 20	0.08	570	LDT160□330G20CS□□□
	47	12.5 x 25	0.08	660	LDT160□470X25CS□□□
	68	12.5 x 25	0.08	800	LDT160□680X25CS□□□
100	16 x 25	0.08	1,120	LDT160□101J25CS□□□	
150	16 x 30	0.08	1,280	LDT160□151J30CS□□□	
200	1.0	6.3 x 12	0.08	55	LDT200□1R0E12CS□□□
	1.5	6.3 x 12	0.08	63	LDT200□1R5E12CS□□□
	1.8	6.3 x 12	0.08	70	LDT200□1R8E12CS□□□
	2.2	6.3 x 12	0.08	75	LDT200□2R2E12CS□□□
	2.8	6.3 x 12	0.08	80	LDT200□2R8E12CS□□□
	3.3	6.3 x 12	0.08	92	LDT200□3R3E12CS□□□
	4.7	8 x 12	0.08	125	LDT200□4R7F12CS□□□
	5.6	8 x 12	0.08	135	LDT200□5R6F12CS□□□
	6.8	8 x 16	0.08	150	LDT200□6R8F16CS□□□
	10	8 x 16	0.08	225	LDT200□100F16CS□□□
	15	8 x 16	0.08	359	LDT200□150F16CS□□□
	15	8 x 20	0.08	378	LDT200□150F20CS□□□
	22	10 x 16	0.08	505	LDT200□220G16CS□□□
	22	10 x 20	0.08	532	LDT200□220G20CS□□□
	33	12.5 x 20	0.08	600	LDT200□330X20CS□□□
47	12.5 x 20	0.08	627	LDT200□470X20CS□□□	
47	12.5 x 25	0.08	660	LDT200□470X25CS□□□	
68	16 x 25	0.08	860	LDT200□680J25CS□□□	
100	12.5 x 30	0.08	882	LDT200□101X30CS□□□	
100	16 x 25	0.08	1,060	LDT200□101J25CS□□□	
150	12.5 x 40	0.08	1,120	LDT200□151X40CS□□□	
150	16 x 35	0.08	1,290	LDT200□151J35CS□□□	
250	1.0	6.3 x 12	0.08	55	LDT250□1R0E12CS□□□
	1.5	6.3 x 12	0.08	63	LDT250□1R5E12CS□□□
	1.8	6.3 x 12	0.08	70	LDT250□1R8E12CS□□□
	2.2	6.3 x 12	0.08	80	LDT250□2R2E12CS□□□
	2.8	6.3 x 12	0.08	90	LDT250□2R8E12CS□□□
	3.3	6.3 x 12	0.08	100	LDT250□3R3E12CS□□□
	4.7	8 x 12	0.08	135	LDT250□4R7F12CS□□□
	5.6	8 x 12	0.08	150	LDT250□5R6F12CS□□□
	6.8	8 x 16	0.08	160	LDT250□6R8F16CS□□□
	8.2	8 x 16	0.08	170	LDT250□8R2F16CS□□□
	10	8 x 16	0.08	240	LDT250□100F16CS□□□
	15	8 x 20	0.08	382	LDT250□150F20CS□□□
	22	10 x 16	0.08	476	LDT250□220G16CS□□□
	33	12.5 x 20	0.08	570	LDT250□330X20CS□□□
	47	12.5 x 20	0.08	648	LDT250□470X20CS□□□
68	12.5 x 30	0.08	874	LDT250□680X30CS□□□	
68	16 x 25	0.08	874	LDT250□680J25CS□□□	
100	12.5 x 35	0.08	966	LDT250□101X35CS□□□	
100	16 x 30	0.08	1,140	LDT250□101J30CS□□□	
150	12.5 x 50	0.08	1,288	LDT250□151X50CS□□□	
150	16 x 35	0.08	1,400	LDT250□151J35CS□□□	

VV (Vdc)	Cap (uF)	Size ØxL(mm)	Tan δ	Ripple ¹⁾	Code No
350	1.0	6.3 x 12	0.08	58	LDT350□1R0E12CS□□□
	1.5	6.3 x 12	0.08	63	LDT350□1R5E12CS□□□
	1.8	6.3 x 12	0.08	68	LDT350□1R8E12CS□□□
	2.2	6.3 x 12	0.08	70	LDT350□2R2E12CS□□□
	2.8	8 x 12	0.08	82	LDT350□2R8F12CS□□□
	3.3	8 x 12	0.08	94	LDT350□3R3F12CS□□□
	4.7	8 x 12	0.08	85	LDT350□4R7F12CS□□□
	5.6	8 x 16	0.08	103	LDT350□5R6F16CS□□□
	6.8	8 x 20	0.08	128	LDT350□6R8F20CS□□□
	8.2	8 x 20	0.08	144	LDT350□8R2F20CS□□□
	10	8 x 20	0.08	207	LDT350□100F20CS□□□
	15	10 x 20	0.08	285	LDT350□150G20CS□□□
	22	12.5 x 20	0.08	410	LDT350□220X20CS□□□
	33	12.5 x 25	0.08	480	LDT350□330X25CS□□□
	47	16 x 20	0.08	550	LDT350□470J20CS□□□
68	18 x 20	0.08	700	LDT350□680K20CS□□□	
100	18 x 30	0.08	900	LDT350□101K30CS□□□	
400	1.0	6.3 x 12	0.08	65	LDT400□1R0E12CS□□□
	1.2	6.3 x 12	0.08	68	LDT400□1R2E12CS□□□
	1.5	8 x 12	0.08	78	LDT400□1R5F12CS□□□
	1.8	8 x 12	0.08	83	LDT400□1R8F12CS□□□
	2.2	6.3 x 12	0.08	78	LDT400□2R2E12CS□□□
	2.2	8 x 12	0.08	85	LDT400□2R2F12CS□□□
	2.8	8 x 16	0.08	95	LDT400□2R8F16CS□□□
	3.3	8 x 12	0.08	105	LDT400□3R3F12CS□□□
	3.3	8 x 16	0.08	110	LDT400□3R3F16CS□□□
	4.7	8 x 12	0.08	110	LDT400□4R7F12CS□□□
	4.7	8 x 16	0.08	150	LDT400□4R7F16CS□□□
	5.6	8 x 20	0.08	160	LDT400□5R6F20CS□□□
	5.6	10 x 16	0.08	180	LDT400□5R6G16CS□□□
	6.8	8 x 20	0.08	180	LDT400□6R8F20CS□□□
	6.8	10 x 16	0.08	220	LDT400□6R8G16CS□□□
8.2	10 x 16	0.08	252	LDT400□8R2G16CS□□□	
8.2	10 x 20	0.08	266	LDT400□8R2G20CS□□□	
10	10 x 16	0.08	288	LDT400□100G16CS□□□	
10	10 x 20	0.08	304	LDT400□100G20CS□□□	
15	8 x 40	0.08	340	LDT400□150F40CS□□□	
15	12.5 x 20	0.08	400	LDT400□150X20CS□□□	
22	8 x 50	0.08	476	LDT400□220F50CS□□□	
22	12.5 x 25	0.08	532	LDT400□220X25CS□□□	
33	10 x 45	0.08	627	LDT400□330G45CS□□□	
33	16 x 25	0.08	608	LDT400□330J25CS□□□	
47	12.5 x 40	0.08	660	LDT400□470X40CS□□□	
47	18 x 25	0.08	792	LDT400□470K25CS□□□	
68	12.5 x 55	0.08	870	LDT400□680X55CS□□□	
68	18 x 30	0.08	900	LDT400□680K30CS□□□	
100	18 x 40	0.08	1,100	LDT400□101K40CS□□□	
450	1.0	8 x 12	0.12	50	LDT450□1R0F12CS□□□
	1.5	8 x 12	0.12	70	LDT450□1R5F12CS□□□
	1.8	8 x 12	0.12	72	LDT450□1R8F12CS□□□
	2.2	8 x 16	0.12	75	LDT450□2R2F16CS□□□
	2.8	8 x 16	0.12	79	LDT450□2R8F16CS□□□
	3.3	8 x 16	0.12	86	LDT450□3R3F16CS□□□
	4.7	8 x 20	0.12	99	LDT450□4R7F20CS□□□
	5.6	10 x 16	0.12	115	LDT450□5R6G16CS□□□
	6.8	10 x 20	0.12	158	LDT450□6R8G20CS□□□
	8.2	10 x 20	0.12	209	LDT450□8R2G20CS□□□
	10	10 x 25	0.12	225	LDT450□100G25CS□□□
	15	8 x 45	0.12	399	LDT450□150F45CS□□□
	15	12.5 x 20	0.12	399	LDT450□150X20CS□□□
	22	10 x 40	0.12	500	LDS450□220G40CS□□□
	22	16 x 20	0.12	550	LDT450□220J20CS□□□



LDT series

■ **Standard Ratings**

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

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tan δ	Ripple ¹⁾	Code No
450	33	10 x 50	0.12	615	LDS450□220G40CS□□□
		16 x 25	0.12	665	LDS450□220G40CS□□□
	47	12.5 x 45	0.12	720	LDS450□220G40CS□□□
		16 x 35	0.12	817	LDS450□220G40CS□□□
	68	18 x 30	0.12	900	LDS450□220G40CS□□□
100	18 x 40	0.12	1,100	LDS450□220G40CS□□□	
500	10	12.5 x 20	0.20	288	LDT500□100X20CS□□□
		12.5 x 25	0.20	302	LDT500□100X25CS□□□
	15	12.5 x 25	0.20	396	LDT500□150X25CS□□□
		16 x 20	0.20	396	LDT500□150J20CS□□□
	22	12.5 x 35	0.20	504	LDT500□220X35CS□□□
		16 x 25	0.20	504	LDT500□220J25CS□□□
	33	18 x 25	0.20	630	LDT500□330K25CS□□□
	47	18 x 30	0.20	792	LDT500□470K30CS□□□
	68	22 x 30	0.20	1,100	LDT500□680L30CS□□□
	100	22 x 35	0.20	1,480	LDT500□101L35CS□□□

■ **Rated ripple current multipliers**

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