

Surface Mount Type

LT Ultra-miniaturized Series



Features

- High voltage (35V, max)
- Ultra-miniaturized (Height 1.4mm)
- Excellent Ripple Absorption (6300mA, max)
- RoHS & REACH Compliance, Halogen free

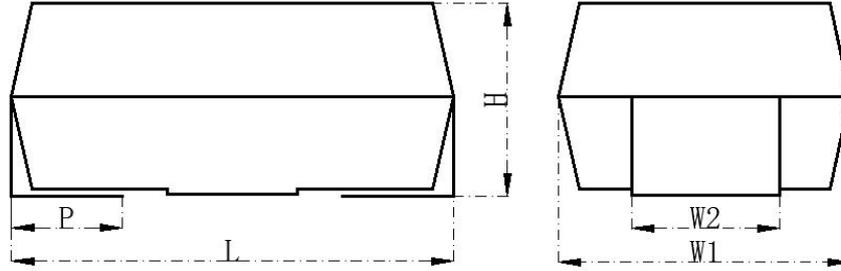
Main Applications

- Ultra-slim Laptops
- Ultra-miniaturized Drones
- Other Ultra-thin Circuit Boards

Specifications

series	LT	
Operating Temp. Range	-55°C~105°C	
Rated Voltage Range	2V~35V	
Rated Capacitance Range	5μF~330μF	
DC Leakage Current (LC)	2V~6.3V: ≤0.1CV, 10V~35V: ≤0.3CV (Rated Voltage, 2minutes)	
Capacitance Tolerance	K(-10%~+10%), M(-20%~+20%), Y(-35%~+10%) or customized	
Dissipation Factor (tgδ)	≤ 0.06 (Frequency: 120Hz, Temp.:20°C)	
Surge Voltage (V)	2V~16V:1.25*VR, 20V~25V:1.15*VR,35V:1.05*VR (15°C~35°C)	
Endurance	Temp.: 105 ±3°C	Appearance: No macroscopi damage
	Applied Voltage: Rated Voltage(DC)	Capacitance Change: -20%~+20% of initial value
	Test time: 2000h	Dissipation Factor (tgδ): ≤0.12
	Stabilizing time: 1~2h	Leakage Current: ≤specified value
Damp heat, Steady state	Temp.: 60 ±2°C	Appearance: No macroscopi damage
	Humidity: 90 ⁺² ₋₃ %RH	Capacitance Change: -20%~+60% of initial value (4V~35V), -20%~+70% of initial value (2V~2.5V)
	No load, Test time: 500h	Dissipation Factor (tgδ): ≤0.12
	Stabilizing time: 1~2h	Leakage Current: ≤300% of specified value

Product Size



Series	L (mm)±0.4	W1 (mm)±0.3	H (mm)±0.2	P (mm)±0.2	W2 (mm)±0.1
LT	7.3	4.3	1.4	1.3	2.4

Characteristics List

Product Part No.	Rated Voltage (V)	Capacitance (μF) *1	D.F. *2	ESR (mΩ) *3	R.C. (mA) *4	L.C. (μA) *5
LT0D221MR015A0	2	220	0.06	15	5100	44
LT0D331MR012A0		330	0.06	12	5600	66
LT0D331MR009A0		330	0.06	9	6300	66
LT0E221MR015A0	2.5	220	0.06	15	5100	55
LT0E331MR012A0		330	0.06	12	5600	82.5
LT0E331MR009A0		330	0.06	9	6300	82.5
LT0G181MR015A0	4	180	0.06	15	5100	72
LT0J470MR045A0	6.3	47	0.06	45	3000	29.6
LT0J101MR030A0		100	0.06	30	3500	63
LT0J101MR015A0		100	0.06	15	5100	63
LT0J151MR018A0		150	0.06	18	4800	94.5
LT0J221MR015A0		220	0.06	15	5100	138.6
LT1A470MR060A0	10	47	0.06	60	1400	141
LT1A680MR040A0		68	0.06	40	3200	204
LT1A820MR045A0		82	0.06	45	3000	246
LT1A151MR030A0		150	0.06	30	3500	450
LT1B330MR060A0	12.5	33	0.06	60	1400	123.8
LT1B680MR045A0		68	0.06	45	3000	255
LT1B101MR030A0		100	0.06	30	3500	375
LT1C330MR060A0	16	33	0.06	60	1400	158.4
LT1C470MR060A0		47	0.06	60	1400	225.6
LT1C470MR040A0		47	0.06	40	3200	225.6
LT1C680MR045A0		68	0.06	45	3000	326.4
LT1C101MR030A0		100	0.06	30	3500	480
LT1D220MR060A0	20	22	0.06	60	1400	132
LT1D330MR040A0		33	0.06	40	3200	198
LT1D470MR045A0		47	0.06	45	3000	282
LT1D470MR040A0		47	0.06	40	3200	282
LT1D680MR030A0		68	0.06	30	3500	408
LT1E100MR060A0	25	10	0.06	60	1400	75
LT1E150MR060A0		15	0.06	60	1400	112.5
LT1E220MR040A0		22	0.06	40	3200	165
LT1E330MR045A0		33	0.06	45	3000	247.5
LT1E470MR030A0		47	0.06	30	3500	352.5
LT1V050MR100A0	35	5	0.06	100	900	52.5
LT1V100MR100A0		10	0.06	100	900	105

Note:

*1: 120Hz, +20±1℃

*2: 120Hz, +20±1℃

*3: 100KHz, +20±1℃

*4: 100KHz, +45±1℃

*5: Rated Voltage, 2 minutes

Temperature Coefficient for Ripple Current

Products	T≤45℃	45℃<T≤85℃	85℃<T≤105℃	Products
2 V~6.3 V	1.0	0.7	0.25	2 V~6.3 V
10 V~35 V	1.0	0.8	0.5	10 V~35 V

表面贴装型**LT极小型化系列****产品特点**

- 高电压 (35V, max)
- 极小型化 (高度 1.4mm)
- 耐纹波电流能力好 (6300mA, max)
- 环保 (符合无卤、RoHS和REACH规定)

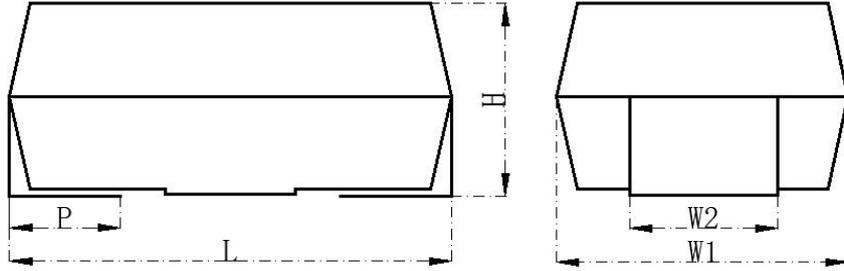
产品应用

- 超薄型笔记本电脑
- 超小型化无人机
- 其他超薄型电路板

产品规格

系列	LT	
类别温度	-55°C~105°C	
额定电压	2V~35V	
静电容量范围 (120Hz, 20°C)	5μF~330μF	
漏电流 (LC)	2V~6.3V: ≤0.1CV, 10V~35V: ≤0.3CV (额定电压, 2分钟)	
静电容量容差	K档(-10%~+10%), M档(-20%~+20%), Y档(-35%~+10%) 或定制其他档位	
损耗角正切 (tgδ)	≤ 0.06 (频率: 120Hz, 温度: 20°C)	
浪涌电压 (V)	2V~16V: 1.25*VR, 20V~25V: 1.15*VR, 35V: 1.05*VR (15°C~35°C)	
耐久性	温度: 105 ±3°C	外观: 无明显损伤
	施加电压: 额定电压(DC)	容量变化: 初始值的-20%~+20%
	测试时间: 2000h	损耗角正切 (tgδ): ≤0.12
	恢复时间: 1~2h	漏电流: ≤规定值
高温高湿	温度: 60 ±2°C	外观: 无明显损伤
	湿度: 90 ⁺² ₋₃ %RH	容量变化: 初始值的-20%~+70% (2V~2.5V), 初始值的-20%~+60% (4V~35V)
	空载, 测试时间: 500h	损耗角正切(tgδ): ≤0.12
	恢复时间: 1~2h	漏电流: ≤规定值的300%

产品尺寸



系列	L (mm)±0.4	W1 (mm)±0.3	H (mm)±0.2	P (mm)±0.2	W2 (mm)±0.1
LT	7.3	4.3	1.4	1.3	2.4

特性一览表

产品编号	额定电压 (V)	容量 (μF) *1	损耗 *2	ESR (mΩ) *3	纹波电流 (mA) *4	漏电流 (μA) *5
LT0D221MR015A0	2	220	0.06	15	5100	44
LT0D331MR012A0		330	0.06	12	5600	66
LT0D331MR009A0		330	0.06	9	6300	66
LT0E221MR015A0	2.5	220	0.06	15	5100	55
LT0E331MR012A0		330	0.06	12	5600	82.5
LT0E331MR009A0		330	0.06	9	6300	82.5
LT0G181MR015A0	4	180	0.06	15	5100	72
LT0J470MR045A0	6.3	47	0.06	45	3000	29.6
LT0J101MR030A0		100	0.06	30	3500	63
LT0J101MR015A0		100	0.06	15	5100	63
LT0J151MR018A0		150	0.06	18	4800	94.5
LT0J221MR015A0		220	0.06	15	5100	138.6
LT1A470MR060A0	10	47	0.06	60	1400	141
LT1A680MR040A0		68	0.06	40	3200	204
LT1A820MR045A0		82	0.06	45	3000	246
LT1A151MR030A0		150	0.06	30	3500	450
LT1B330MR060A0	12.5	33	0.06	60	1400	123.8
LT1B680MR045A0		68	0.06	45	3000	255
LT1B101MR030A0		100	0.06	30	3500	375
LT1C330MR060A0	16	33	0.06	60	1400	158.4
LT1C470MR060A0		47	0.06	60	1400	225.6
LT1C470MR040A0		47	0.06	40	3200	225.6
LT1C680MR045A0		68	0.06	45	3000	326.4
LT1C101MR030A0		100	0.06	30	3500	480
LT1D220MR060A0	20	22	0.06	60	1400	132
LT1D330MR040A0		33	0.06	40	3200	198
LT1D470MR045A0		47	0.06	45	3000	282
LT1D470MR040A0		47	0.06	40	3200	282
LT1D680MR030A0		68	0.06	30	3500	408
LT1E100MR060A0	25	10	0.06	60	1400	75
LT1E150MR060A0		15	0.06	60	1400	112.5
LT1E220MR040A0		22	0.06	40	3200	165
LT1E330MR045A0		33	0.06	45	3000	247.5
LT1E470MR030A0		47	0.06	30	3500	352.5
LT1V050MR100A0	35	5	0.06	100	900	52.5
LT1V100MR100A0		10	0.06	100	900	105

备注:

*1: 120Hz, +20±1℃

*2: 120Hz, +20±1℃

*3: 100KHz, +20±1℃

*4: 100KHz, +45±1℃

*5: 额定电压, 2分钟

纹波电流温度系数

产品	T≤45℃	45℃<T≤85℃	85℃<T≤105℃	产品
2 V~6.3 V	1.0	0.7	0.25	2 V~6.3 V
10 V~35 V	1.0	0.8	0.5	10 V~35 V