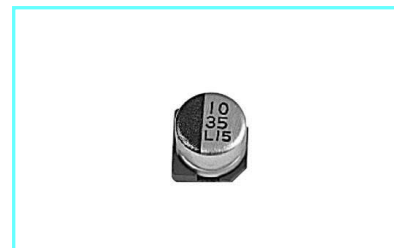


UCL チップ 低インピーダンス品 高さ 5.4 mm 品
Series, SMD 105°C, Low Impedance, 5.4mm Height

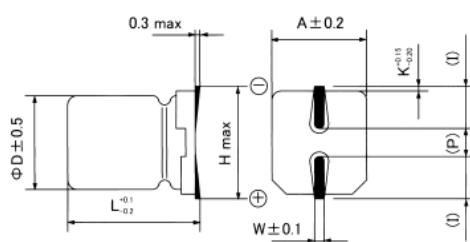
- 小形・薄形セットへの高密度表面実装に対応
Chip type for high-density circuit use
- 105°C 1,000時間保証
Load life: 1,000 hours
- 定格電圧範囲 Rated voltage range : 6.3 ~ 50V
- 静電容量範囲 Capacitance range : 1 ~ 100μF
- RoHS指令対応済/RoHS Compliant



■ 仕様 SPECIFICATIONS

項目 Items	特性 Characteristics								
カテゴリ温度範囲 Operating Temperature Range	-55 ~ +105°C								
定格電圧範囲 Rated Voltage Range	6.3V ~ 50V								
静電容量範囲 Nominal Capacitance Range	1 ~ 100 μF								
静電容量許容差 Capacitance Tolerance	±20% (120Hz, 20°C)								
漏れ電流 Leakage Current	I ≤ 0.01CV 又は 3 μA のいずれか大きい値以下(2分値) I ≤ 0.01CV or 3 μA whichever is greater, after 2 minutes application of rated voltage.								
損失角の正接 Dissipation Factor	定格電圧(V) Rated voltage	6.3	10	16	25	35	50	120Hz, 20°C	
	tan δ (max.)	0.22	0.19	0.16	0.14	0.12	0.12		
温度特性 Temperature Characteristics	インピーダンス比 Impedance Ratio /120 Hz								
	定格電圧(V) Rated voltage	6.3	10	16	25	35	50		
	Z(-25°C) / Z(+20°C)	2	2	2	2	2	2		
	Z(-55°C) / Z(+20°C)	5	4	4	3	3	3		
高温負荷特性 Load Life	105°C 1,000 時間定格電圧連続印加後、20°Cに戻し測定を行ったとき、下記項目を満足する After 1,000 hours application of rated voltage at 105°C, capacitor meet the characteristic requirements as below.								
	静電容量変化率 Capacitance change	初期値の±30%/6.3V、±20%/10~50V 以内 Within ±30%/6.3V、±20%/10~50V of initial value							
	損失角の正接 Dissipation Factor	初期規格値の 200%以下 200% or less of initial specified value							
	漏れ電流 Leakage current	初期規格値以下 Initial specified value or less							
高温無負荷特性 Shelf Life	105°C 1,000 時間無負荷放置後、下記規格を満足する。(但し,JIS C-5102 4.4 項の電圧処理後) After storing the capacitors under no load at 105°C for 1,000 hours, capacitors meet the characteristic requirements as below. Be sure to apply voltage to the capacitors before test according to JIS-C-5101-4 4.1								
	静電容量変化率 Capacitance change	初期値の±30%/6.3V、±20%/10~50V 以内 Within ±30%/6.3V、±20%/10~50V of initial value							
	損失角の正接 Dissipation Factor	初期規格値の 200%以下 200% or less of initial specified value							
	漏れ電流 Leakage current	初期規格値以下 Initial specified value or less							
はんだ耐熱性 Resistance to soldering heat	電極端子面を 250°Cの熱板上に 30 秒間放置後、20°Cに戻し測定を行ったとき、下記項目を満足する Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following requirements after being cooled to room temperature.								
	静電容量変化率 Capacitance change	初期値の±10%以内 Within ±10% of initial value							
	損失角の正接 Dissipation Factor	初期規格値以下 Initial specified value or less							
	漏れ電流 Leakage current	初期規格値以下 Initial specified value or less							

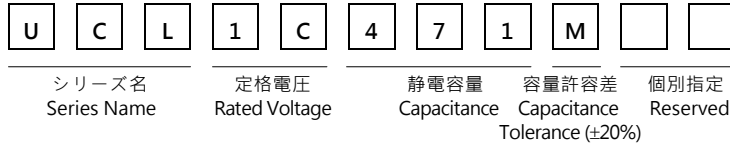
■ 寸法図 Dimensions



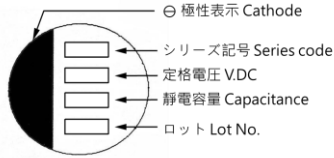
unit: mm

φD	L	A	H	I	W	P	K
4	5.4	4.3	5.5	1.8	0.65 ±0.1	1.0	0.35 +0.15-0.20
5	5.4	5.3	6.5	2.2	0.65 ±0.1	1.5	0.35 +0.15-0.20
6.3	5.4	6.6	7.8	2.6	0.65 ±0.1	2.1	0.35 +0.15-0.20

■ 品名コード体系 Part Numbering (例 example: 16V 470 μF)



■ Marking



- 許容リプル電流周波数補正係数
Frequency coefficient of allowable ripple current

周波数 (Hz) Frequency	50 Hz	120 Hz	300 Hz	1 KHz	10 KHz~
係数 Coefficient	0.35	0.50	0.64	0.83	1.00

■ 寸法表 Standard Products Table

Cap. (μF)	W.V. Code	6.3 (0J)			10 (1A)			16 (1C)			25 (1E)		
		4.7	4R7										4 x 5.4
6.8	6R8										4 x 5.4	2.7	60
10	100							4 x 5.4	3.3	60	5 x 5.4	2.4	65
22	220	4 x 5.4	3.2	60	5 x 5.4	2.2	65	5 x 5.4	1.8	85	6.3 x 5.4	1.3	110
33	330	5 x 5.4	2.4	65	5 x 5.4	1.7	75	6.3 x 5.4	1.4	120	6.3 x 5.4	1.0	140
47	470	5 x 5.4	2.0	80	6.3 x 5.4	1.4	110	6.3 x 5.4	1.1	140			
68	680	6.3 x 5.4	1.5	110	6.3 x 5.4	1.1	130						
100	101	6.3 x 5.4	1.2	130	6.3 x 5.4	0.9	150				Size (mm)	Imp.	R.C.

Cap. (μF)	W.V. Code	35 (1V)			50 (1H)		
		1	1R0	4 x 5.4	3.9	60	4 x 5.4
2.2	2R2	4 x 5.4	3.6	60	4 x 5.4	4.5	30
3.3	3R3	4 x 5.4	3.0	60	4 x 5.4	3.7	30
4.7	4R7	4 x 5.4	2.5	60	5 x 5.4	3.1	41
6.8	6R8	5 x 5.4	2.2	60	6.3 x 5.4	2.7	55
10	100	5 x 5.4	1.9	70	6.3 x 5.4	2.4	70
22	220	6.3 x 5.4	1.0	120	Size (mm)	Imp.	R.C.

- Allowable Ripple Current/定格リプル電流 (mArms) at 105°C 100KHz
- Impedance/インピーダンス(Ω) Max. at 20°C 100KHz