

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



UUL Series

- Super low ESR at a high frequency ranged
 - Low profile 6.3×6 max, 8×7 max
 - 2,000 hours at 105°C



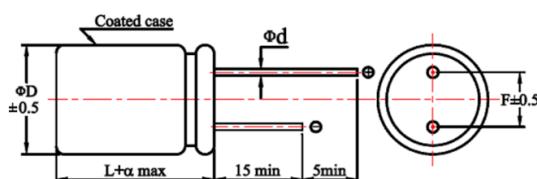
◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-55 ~ +105°C
Working Voltage Range	2.5 ~ 16Vdc
Surge Voltage	Rated Voltage × 1.15
Capacitance Tolerance	M: ±20% (at 25°C and 120Hz)
ESR	See the standard ratings table (at 25°C, 100~300KHz)
Dissipation Factor (Tanδ)	See the standard ratings table (at 25°C, 120Hz)
Leakage Current ≈ 1	See the standard ratings table (Impress the rated voltage for 2 minutes)
Low Temperature Characteristics Impedance Ratio	Z(-25°C)/Z(+25°C) ≤ 1.15 at 100KHz Z(-55°C)/Z(+25°C) ≤ 1.25 at 100KHz
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage for 2,000 hours at 105°C.
	Capacitance change ≤ ±20% of the initial value
	ESR ≤ 150% of the specified value
	Dissipation factor(tanδ) ≤ 150% of the specified value
	Leakage current ≤ specified value
Damp Heat (Steady State)	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 60°C 90 to 95% RH.
	Capacitance change ≤ ±20% of the initial value
	ESR ≤ 150% of the specified value
	Dissipation factor(tanδ) ≤ 150% of the specified value
	Leakage current ≤ specified value
Others	Conforms to JIS-C-5101-26 (2012)

*1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

※2 ESR should be measured at both of the terminal ends closest to the capacitor body.

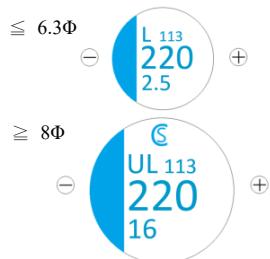
◆ DIMENSIONS (mm)



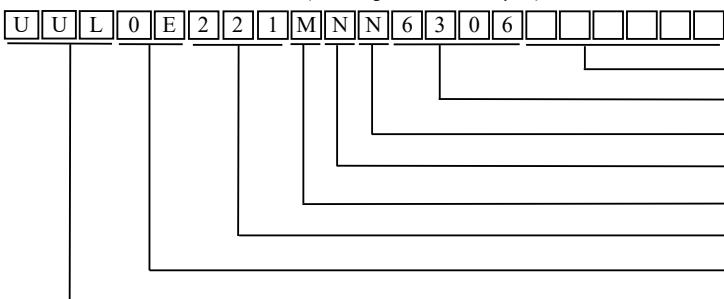
◆ LEAD

ΦD	6.3	8
Φd	0.45	0.6
	6	7
α	0	0
F	2.5	3.5

◆ MARKING



◆ PART NUMBER SYSTEM (Example : 2.5V 220 μ F)



Special Request

Size code(6306 : 6.3×6)

Terminal length code

Lead forming Type code

Capacitor tolerance code (Mu + 20%)

Composition no. 1 (220°F)

Voltage code(2.5V)

Voltage code (±5 V)

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◆ STANDARD RATINGS

WV (Vdc)	Cap (μ F)	Case Size (mm) Φ D×L	ESR 100~300KHz (m Ω max)	Rated Ripple current (mA rms/ 105°C, 100KHz)	Tan δ max	Leakage Current (μ A max)	Part Number
2.5 (0E)	220	6.3×6	8	3400	0.10	500	UUL0E221MNN6306
	390	6.3×6	8	3900	0.10	500	UUL0E391MNN6306
	560	6.3×6	8	3900	0.10	500	UUL0E561MNN6306
	680	6.3×6	8	4500	0.10	500	UUL0E681MNN6306
6.3 (0J)	220	6.3×6	17	3000	0.10	500	UUL0J221MNN6306
	330	6.3×6	17	3300	0.10	500	UUL0J331MNN6306
16 (1C)	100	6.3×6	24	2490	0.10	500	UUL1C101MNN6306
	150	6.3×6	22	3220	0.10	500	UUL1C151MNN6306
	180	6.3×6	22	3300	0.10	576	UUL1C181MNN6306
	220	8×7	13	4150	0.10	704	UUL1C221MNN0807
	270	8×7	12	4300	0.10	864	UUL1C271MNN0807
	330	8×7	12	4300	0.10	1056	UUL1C331MNN0807
	390	8×7	12	4300	0.10	1248	UUL1C391MNN0807
	470	8×7	13	4700	0.10	1504	UUL1C471MNN0807