

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS



UPD Series NEW

- Super low ESR at a high frequency ranged
- High ripple current capability
- 2,000 hours at 105°C



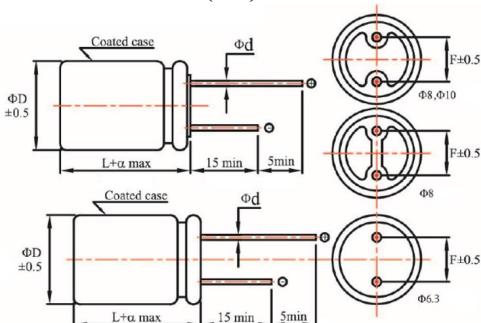
◆ SPECIFICATIONS

Item	Performance Characteristics								
Category Temperature Range	-40 ~ +105°C								
Working Voltage Range	25 ~ 63Vdc								
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(-40°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. <table border="1" style="margin-left: 20px;"> <tr> <td>Capacitance change</td><td>≤ ±20% of the initial value</td></tr> <tr> <td>ESR</td><td>≤ 150% of the specified value</td></tr> <tr> <td>Dissipation factor(tanδ)</td><td>≤ 150% of the specified value</td></tr> <tr> <td>Leakage current</td><td>≤ specified value</td></tr> </table>	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
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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. <table border="1" style="margin-left: 20px;"> <tr> <td>Capacitance change</td><td>≤ ±20% of the initial value</td></tr> <tr> <td>ESR</td><td>≤ 150% of the specified value</td></tr> <tr> <td>Dissipation factor(tanδ)</td><td>≤ 150% of the specified value</td></tr> <tr> <td>Leakage current</td><td>≤ specified value</td></tr> </table>	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
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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.

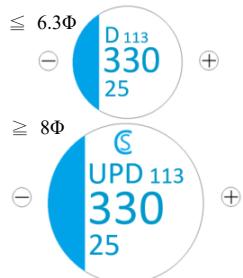
◆ DIMENSIONS (mm)



◆ LEAD

ΦD	6.3	6.3	8	8	10
Φd	0.6	0.6	0.6	0.6	0.6
L	8	12~16	8	11~16	12
α	1	1.5	1	1.5	1.5
F	2.5	2.5	3.5	3.5	5.0

◆ MARKING



◆ PART NUMBER SYSTEM (Example : 25V 330μF)

U	P	D	1	E	3	3	1	M	N	N	6	3	1	2																Special Request
																														Size code(6312 : 6.3×12)
																														Terminal length code
																														Lead forming Type code
																														Capacitance tolerance code(M:±20%)
																														Capacitance code(330μF)
																														Voltage code(25V)
																														Series code (UPD)

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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
25 (1E)	330	6.3×12	30	2600	0.12	1650	UPD1E331MNN6312
	470	6.3×16	20	3800	0.12	2350	UPD1E471MNN6316
	330	8×8	16	4650	0.12	1650	UPD1E331MNN0808U
	560	6.3×16	20	4200	0.12	2800	UPD1E561MNN6316
	560	8×11	16	4650	0.12	2800	UPD1E561MNN0811U
	820	8×16	12	4650	0.12	4100	UPD1E821MNN0816U
35 (1V)	270	8×11	44	2520	0.12	1890	UPD1V271MNN0811U
	390	8×16	24	3100	0.12	2730	UPD1V391MNN0816U
63 (1J)	82	10×12	25	2700	0.12	857	UPD1J820MNN1012U
	100	10×12	25	2900	0.12	1260	UPD1J101MNN1012U