

# **CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS**



# **UPS Series**

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



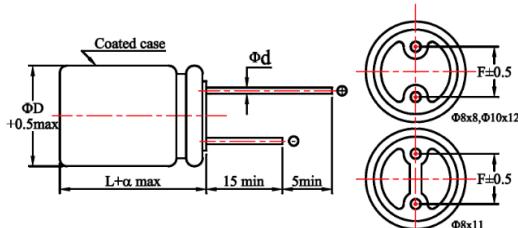
## ◆ SPECIFICATIONS

Item	Performance Characteristics	
Category Temperature Range	-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	8	8	10
Φd	0.6	0.6	0.6
L	8	11	12
α	1	1.5	1.5
F	3.5	3.5	5.0

## ◆ MARKING



#### ◆ PART NUMBER SYSTEM ( Example : 16V 820 $\mu$ F )

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## UPS Series

### ◆ STANDARD RATINGS

WV (Vdc)	Cap ( $\mu$ F)	Case Size (mm) $\Phi$ D×L	ESR 100~300KHz (m $\Omega$ max)	Rated Ripple current (mA rms/ 105°C, 100KHz)	Tan $\delta$ max	Leakage Current ( $\mu$ A max)	Part Number
2.5 (0E)	560	8×8	7	4700	0.12	350	UPS0E561MNN0808U
	680	8×8	7	5580	0.12	425	UPS0E681MNN0808U
	820	8×8	7	6100	0.12	512	UPS0E821MNN0808U
	820	8×11	7	6100	0.12	410	UPS0E821MNN0811U
	1000	8×8	7	6100	0.12	500	UPS0E102MNN0808U
	1000	8×11	7	6100	0.12	500	UPS0E102MNN0811U
	1200	8×8	7	6100	0.12	600	UPS0E122MNN0808U
	1500	8×11	7	6100	0.12	750	UPS0E152MNN0811U
	1500	10×12	7	6100	0.12	750	UPS0E152MNN1012U
	1800	8×11	7	6100	0.12	900	UPS0E182MNN0811U
4 (0G)	470	8×8	7	5600	0.12	470	UPS0G471MNN0808U
	560	8×8	7	6100	0.12	560	UPS0G561MNN0808U
	680	8×8	7	6100	0.12	544	UPS0G681MNN0808U
	820	10×12	7	6100	0.12	656	UPS0G821MNN1012U
	1200	10×12	7	6100	0.12	960	UPS0G122MNN1012U
6.3 (0J)	220	8×8	7	3700	0.12	347	UPS0J221MNN0808U
	330	8×8	7	3700	0.12	520	UPS0J331MNN0808U
	390	8×8	7	5700	0.12	491	UPS0J391MNN0808U
	470	8×8	7	5700	0.12	740	UPS0J471MNN0808U
	560	8×8	7	5700	0.12	882	UPS0J561MNN0808U
	680	8×8	7	5860	0.12	857	UPS0J681MNN0808U
	820	8×8	9	5700	0.12	1033	UPS0J821MNN0808U
	820	8×11	7	6100	0.12	1033	UPS0J821MNN0811U
	820	10×12	7	6100	0.12	1033	UPS0J821MNN1012U
	1000	10×12	7	6100	0.12	1260	UPS0J102MNN1012U
	1200	8×11	7	5700	0.12	1512	UPS0J122MNN0811U
	1500	10×12	7	6100	0.12	1890	UPS0J152MNN1012U
	2000	10×12	7	7100	0.12	2520	UPS0J202MNN1012U
10 (1A)	270	8×11	7	5600	0.12	540	UPS1A271MNN0811U
	470	10×12	7	6100	0.12	940	UPS1A471MNN1012U
	560	8×11	7	5700	0.12	882	UPS1A561MNN0811U
	560	10×12	7	6100	0.12	1120	UPS1A561MNN1012U
	680	8×11	7	5600	0.12	1360	UPS1A681MNN0811U
	820	8×11	7	5700	0.12	1640	UPS1A821MNN0811U
	820	10×12	7	6100	0.12	1640	UPS1A821MNN1012U
	1000	10×12	7	6100	0.12	2000	UPS1A102MNN1012U
16 (1C)	150	8×11	7	5600	0.12	480	UPS1C151MNN0811U
	180	8×8	7	5600	0.12	576	UPS1C181MNN0808U
	180	8×11	7	5600	0.12	576	UPS1C181MNN0811U
	270	8×11	7	5600	0.12	864	UPS1C271MNN0811U
	330	8×11	7	5600	0.12	1056	UPS1C331MNN0811U
	330	10×12	7	6100	0.12	1056	UPS1C331MNN1012U
	470	8×11	7	5600	0.12	1504	UPS1C471MNN0811U
	470	10×12	7	6100	0.12	1504	UPS1C471MNN1012U
	820	10×12	7	6100	0.12	2000	UPS1C821MNN1012U
	1000	10×12	7	6100	0.12	3200	UPS1C102MNN1012U