UPS Series

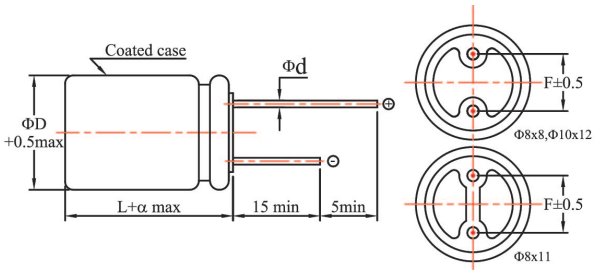
- **Super low ESR at a high frequency range**
- **High ripple current capability**
- **2,000 hours at 105℃**

◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-55 ~ +105℃
Working Voltage Range	2.5 ~ 16Vdc
Surge Voltage	Rated Voltage x1.15
Capacitance Tolerance	M: ±20% (at 25℃ and 120Hz)
ESR	See the standard ratings table (at 25℃, 100~300KHz)
Dissipation Factor (Tanδ)	See the standard ratings table (at 25℃, 120Hz)
Leakage Current ※1	See the standard ratings table.(Impress the rated voltage for 2 minutes)
Low Temperature Characteristics Impedance Ratio	Z(-25℃)/Z(+25℃) ≤1.15 at 100KHz Z(-55℃)/Z(+25℃) ≤1.25 at 100KHz
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied 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℃ after exposing them for 1,000 hours at 60℃ 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

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at105°C
※2 ESR should be measured at both of the terminal ends closest to the capacitor body

◆ DIMENSIONS (mm)

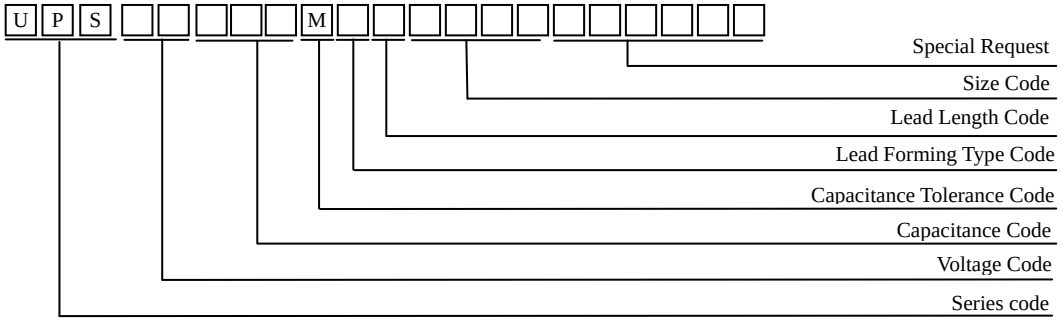


◆ Lead

ΦD	8	8	10
Φd	0.6	0.6	0.6
L	8	11	12
α	1.0	1.5	1.5
F	3.5	3.5	5.0

◆ Marking

◆ PART NUMBER SYSTEM



UPS Series

◆ **Standard Ratings**

Rated Voltage (Vdc)	Rated Capacitance (μF)	Case Size ΦD×L (mm)	ESR 100~300KHz (mΩmax)	Rated Ripple Current 105℃,100KHz (mArms max)	Tanδ max	Leakage Current (μA 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	8×11	7	6100	0.12	1033	UPS0J821MNN0811U
	820	10×12	7	6100	0.12	1033	UPS0J821MNN1012U
	1000	10×12	7	6100	0.12	1260	UPS0J102MNN1012U
	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