



UPE Series

- Super low ESR at a high frequency range
- High ripple current capability
- 5,000 hours at 105°C

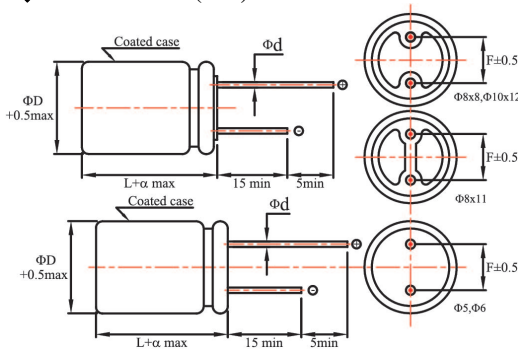


◆ SPECIFICATIONS

Item	Performance Characteristics	
Category Temperature Range	-55 ~ +105°C	
Working Voltage Range	2.5 ~ 35Vdc	
Surge Voltage	Rated Voltage x1.15	
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 with the rated ripple current is applied for 5,000 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

※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

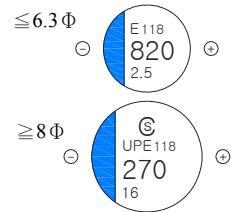
◆ DIMENSIONS (mm)



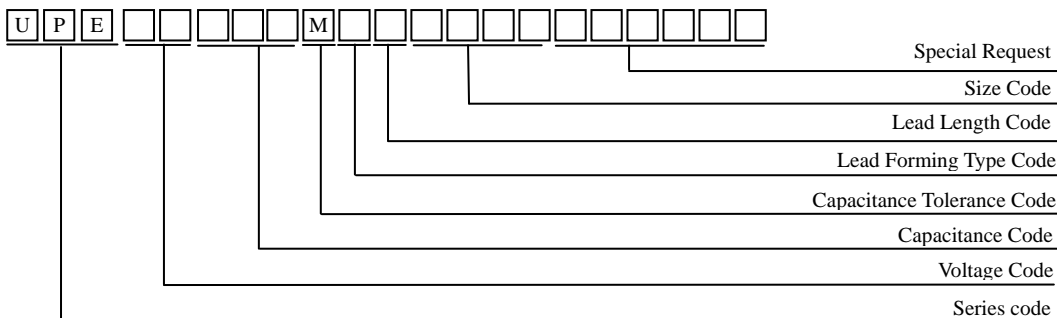
◆ Lead

ΦD	5	6.3	6.3	8	8	10
Φd	0.45		0.6			
L	8	5	8	6~8	11	12
α	1	1	1	1	1.5	1.5
F	2.0	2.5		3.5		5

◆ Marking



◆ PART NUMBER SYSTEM





UPE Series

◆ Standard Ratings

Rated Voltage (Vdc)	Rated Capacitance (μF)	Case Size ΦD×L (mm)	ESR 100~300KHz (mΩ max)	Rated Ripple Current 105°C,100KHz (mArms max)	Tan δ max	Leakage Current (μA max)	Part Number
2.5(0E)	390	6.3×5	10	3900	0.10	500	UPE0E391MNN6305
	560	5×8	7	4200	0.10	500	UPE0E561MNN0508
	560	6.3×8	7	5000	0.10	500	UPE0E561MNN6308
	560	8×8	8	4700	0.10	500	UPE0E561MNN0808
	820	6.3×8	7	5000	0.10	500	UPE0E821MNN6308
	820	8×8	7	6100	0.10	500	UPE0E821MNN0808
	1000	8×8	7	6100	0.10	900	UPE0E102MNN0808
4(0G)	560	6.3×8	7	5000	0.10	500	UPE0G561MNN6308
	560	8×8	7	6100	0.10	500	UPE0G561MNN0808
6.3(0J)	100	6.3×8	35	2100	0.10	500	UPE0J101MNN6308
	330	5×8	8	4050	0.10	500	UPE0J331MNN0508
	470	6.3×8	8	4700	0.10	592	UPE0J471MNN6308
	560	8×8	7	6100	0.10	706	UPE0J561MNN0808
	820	6.3×8	8	4700	0.10	1033	UPE0J821MNN6308
	820	8×8	8	6100	0.10	1033	UPE0J821MNN0808
16(1C)	100	6.3×5	24	2400	0.10	500	UPE1C101MNN6305
	100	6.3×8	24	2490	0.10	500	UPE1C101MNN6308
	180	6.3×5	22	3300	0.10	576	UPE1C181MNN6305
	180	8×8	10	5000	0.10	576	UPE1C181MNN0808
	180	8×11	16	4360	0.10	576	UPE1C181MNN0811
	220	8×6	13	4150	0.10	500	UPE1C221MNN0806
	270	6.3×8	15	3800	0.10	864	UPE1C271MNN6308
	270	8×8	10	5000	0.10	864	UPE1C271MNN0808
	270	8×11	11	5000	0.10	864	UPE1C271MNN0811
	330	8×8	11	4700	0.10	1056	UPE1C331MNN0808
	470	8×8	16	4000	0.10	1504	UPE1C471MNN0808
	470	8×11	11	5400	0.10	1504	UPE1C471MNN0811
	470	10×12	10	6100	0.10	1504	UPE1C471MNN1012
	560	8×11	14	4970	0.10	1792	UPE1C561MNN0811
	820	10×12	12	5400	0.10	2624	UPE1C821MNN1012
1000	10×12	12	5400	0.10	3200	UPE1C102MNN1012	
25(1E)	56	6.3×5	30	2800	0.10	300	UPE1E560MNN6305
	82	8×8	28	3000	0.10	410	UPE1E820MNN0808
	180	8×11	16	4650	0.10	900	UPE1E181MNN0811
	330	10×12	14	5000	0.10	1650	UPE1E331MNN1012
35(1V)	22	6.3×5	35	2600	0.10	300	UPE1V220MNN6305
	33	8×8	30	2800	0.10	300	UPE1V330MNN0808
	82	8×11	20	4000	0.10	574	UPE1V820MNN0811
	120	10×12	18	4400	0.10	840	UPE1V121MNN1012