



RP Series

- Low ESR at a high frequency range
- High ripple current capability
- 2,000 hours at 105°C

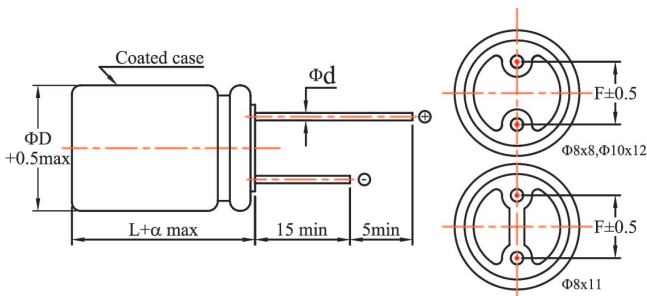


◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-55 ~ +105°C
Working Voltage Range	2.5 ~ 16Vdc
Surge Voltage	Rated Voltage 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 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

※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

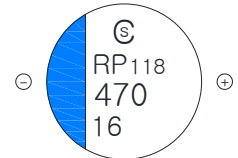
◆ DIMENSIONS (mm)



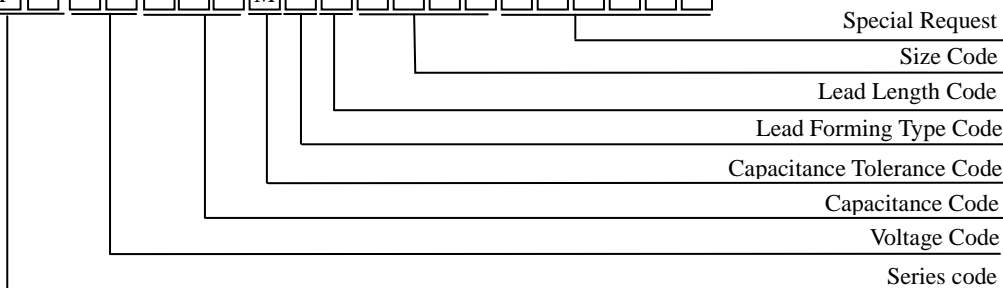
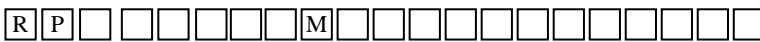
◆ Lead

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

◆ Marking



◆ PART NUMBER SYSTEM





RP 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 (mA _{rms} max)	Tan δ max	Leakage Current (μA max)	Part Number
2.5(0E)	680	8×11	12	4520	0.12	340	RP0E681MNN0811
	820	8×11	12	5440	0.12	410	RP0E821MNN0811
	1500	10×12	12	5440	0.12	750	RP0E152MNN1012
	2700	10×12	12	5440	0.12	1350	RP0E272MNN1012
4(0G)	560	8×11	12	4520	0.12	448	RP0G561MNN0811
	820	10×12	12	5040	0.12	656	RP0G821MNN1012
	1200	10×12	12	5040	0.12	960	RP0G122MNN1012
6.3(0J)	270	8×8	12	3600	0.12	340	RP0J271MNN0808
	470	8×8	12	4770	0.12	592	RP0J471MNN0808
	680	10×12	12	5040	0.12	857	RP0J681MNN1012
	820	10×12	12	5040	0.12	1033	RP0J821MNN1012
	1000	10×12	12	5040	0.12	1260	RP0J102MNN1012
	1200	8×11	12	5040	0.12	1512	RP0J122MNN0811
	1500	8×11	12	5040	0.12	1890	RP0J152MNN0811
	1500	10×12	12	5560	0.12	1890	RP0J152MNN1012
10(1A)	220	8×8	12	4700	0.12	440	RP1A221MNN0808
	270	8×11	12	4420	0.12	540	RP1A271MNN0811
	330	8×8	12	4700	0.12	660	RP1A331MNN0808
	470	8×8	12	5100	0.12	940	RP1A471MNN0808
	470	10×12	12	5300	0.12	940	RP1A471MNN1012
	560	8×11	12	4500	0.12	1260	RP1A561MNN0811
	560	10×12	12	5300	0.12	1120	RP1A561MNN1012
	680	8×11	12	4500	0.12	1360	RP1A681MNN0811
	680	10×12	12	5300	0.12	1360	RP1A681MNN1012
	820	8×11	12	5000	0.12	1640	RP1A821MNN0811
	1000	10×12	12	5300	0.12	2000	RP1A102MNN1012
	1200	10×12	12	5300	0.12	2400	RP1A122MNN1012
16(1C)	100	8×11	12	4850	0.12	320	RP1C101MNN0811
	180	8×8	12	3840	0.12	576	RP1C181MNN0808
	180	8×11	12	4850	0.12	576	RP1C181MNN0811
	270	8×8	12	4300	0.12	864	RP1C271MNN0808
	270	8×11	12	5000	0.12	864	RP1C271MNN0811
	270	10×12	12	5300	0.12	864	RP1C271MNN1012R
	330	8×8	12	4700	0.12	1056	RP1C331MNN0808
	330	8×11	12	5000	0.12	1056	RP1C331MNN0811
	330	10×12	12	5300	0.12	1056	RP1C331MNN1012
	470	8×11	12	5300	0.12	1504	RP1C471MNN0811
	470	10×12	12	5300	0.12	1504	RP1C471MNN1012
	560	8×11	12	5000	0.12	1792	RP1C561MNN0811
	560	10×12	12	5300	0.12	1792	RP1C561MNN1012
	680	10×12	12	5300	0.12	2176	RP1C681MNN1012
	820	10×12	12	5300	0.12	2624	RP1C821MNN1012
	1000	10×12	12	5400	0.12	3200	RP1C102MNN1012