

E2 SERIES

SMK®

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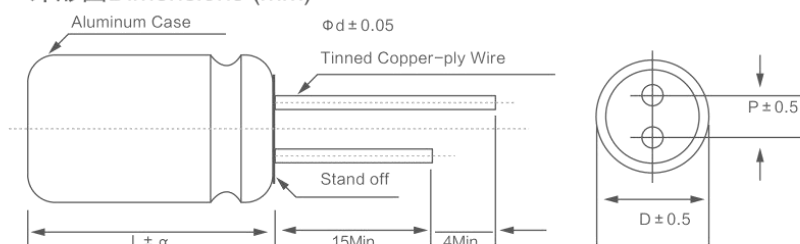
Low ESR, high ripple current
Load life of 2000 hours at 105°C



規格表 Specifications

項目 Items	特性參數 Characteristics										
使用溫度範圍 Category Temperture Range	-55 ~ +105℃										
額定工作電壓範圍 Rated Voltage Range	2.5 ~ 25V										
靜電容量允許偏差 Capacitance tolerance	± 20%(M) (at 20℃,120Hz)										
漏電流 Leakage Current	施加額定工作電壓 2 分鐘後讀數, 小于或等于規格值 (at 20℃) I≤0.2CV 或 500 μ A(取大值) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃										
損耗角正切值 tan δ Dissipation Factor	2.5	4	6.3	6.8	7.5	10	12	16	20	25	(at 20℃,120Hz)
	0.08					0.12					
溫度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)					≤ 1.25					(100KHz)
	Z(-55℃)/Z(+20℃)					≤ 1.25					
耐久性 Endurance	105℃施加額定工作電壓 2000 小時, 恢復到 20℃後, 產品性能應滿足以下要求 The specifications listed below shall be satisfied when the capacitors are restored to 20℃ after application of rated voltage for 2000 hours at 105℃. Appearance										

外形圖 Dimensions (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6
α	(L < 16) 1.0			
	(16 ≤ L < 22) 1.5			
	(L ≥ 22) 2.0			

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紋波電流補正係數 Rated Ripple Current Coefficient

頻率Frequency(Hz)	120Hz $\leq f < 1$ kHz	1kHz $\leq f < 10$ kHz	10kHz $\leq f < 100$ kHz	100kHz $\leq f < 500$ kHz
係數Coefficient	0.05	0.30	0.70	1.00

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Rated voltage (V)	Rated capacitance (uF)	Case size $\Phi D \times L$ (mm)	ESR(m Ω) at 20%, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105 °C /100kHz)
係數Coefficient	560	5*8	18	500	2900
2.5	560	6.3*8	15	500	3500
	680	6.3*8	15	500	3500
	680	8*9	12	500	5200
	820	6.3*8	15	500	3500
	820	8*9	12	500	5200
	1000	8*9	12	500	5500
	1000	8*12	12	500	5500
	1200	8*9	12	600	5500
	1200	8*12	12	600	5500
	1500	8*12	12	750	5500
4	560	6.3*8	15	500	3100
	560	8*9	12	500	5100
	680	6.3*8	15	544	3500
	680	8*9	12	544	5100
	820	6.3*9	15	656	4100
	820	8*9	12	656	5100
	1000	6.3*12	15	800	4100
	1000	8*9	12	800	5100
	1200	6.3*12	15	960	4500
	1200	8*9	12	960	5100
6.3	220	5*7	18	500	2690
	220	5*8	18	500	2690
	270	5*8	18	500	2690
	330	5*8	18	500	2690
	330	6.3*8	15	500	3100
	390	5*9	16	500	3100
	390	6.3*8	15	500	3100
	470	5*9	15	592	3300
	470	6.3*8	15	592	4100
	560	5*11	15	706	3500
	560	6.3*8	15	706	4100
	560	8*9	12	706	5100
	680	5*12	15	857	4100
	680	6.3*8	15	857	4100
	680	8*9	12	857	5100

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Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D $\times$ L (mm)	ESR(m Ω) at 20°C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105°C/100kHz)
系數Coefficient	820	6.3*9	15	11033	4500
6.3	820	6.3*12	15	1033	4800
	820	8*9	12	1033	5100
	1000	6.3*12	14	1260	4800
	1000	8*9	12	1260	5100
	1000	8*12	12	1260	5500
	1200	6.3*12	12	1512	4900
	1200	8*9	12	1512	5100
	1200	8*12	12	1512	5500
	1500	8*12	12	1890	5500
	1500	10*12.5	12	1890	5900
	2200	10*12.5	12	2772	5900
7.5	270	5*8	18	500	2690
	330	6.3*8	16	500	3100
	390	6.3*8	16	585	3500
	470	6.3*8	16	705	3500
	560	6.3*8	16	840	3500
	680	6.3*12	16	1020	3800
	680	8*9	12	1020	4800
	820	6.3*12	16	1230	3800
	820	8*9	12	1230	4800
	1000	8*9	12	1500	4800
	1000	8*12	12	1500	5100
	1200	8*12	12	1800	5100
	1200	10*12.5	12	1800	5500
	1500	10*12.5	12	2250	5500
10	100	5*8	20	500	1800
	150	5*8	20	500	1800
	220	5*8	20	500	2200
	220	6.3*8	16	500	2900
	270	6.3*8	16	540	2900
	330	5*8	20	660	2900
	330	6.3*8	16	660	3100
	390	6.3*8	16	780	3100
	390	6.3*12	16	780	3500
	470	6.3*8	16	940	3100
	470	8*9	14	940	4800
	560	6.3*9	16	1120	3500
	560	8*9	16	1120	4800

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Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D×L(mm)	ESR(m Ω) at 20 $\times$ 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105 °C/100kHz)
系數Coefficient	680	6.3*11	16	1360	3500
10	680	8*9	14	1360	4800
	820	8*9	14	1640	4800
	820	8*12	14	1640	5100
	1000	8*12	14	2000	5100
	1000	10*12.5	14	2000	5500
	1500	8*12	14	3000	5300
	1500	10*12.5	14	3000	5500
	1500	10*12.5	14	3000	5500
12	220	5*9	20	528	2690
	220	6.3*8	18	528	3160
	330	5*9	20	792	2800
	330	6.3*8	18	792	3200
	390	6.3*8	18	936	3200
	470	6.3*12	18	1128	3500
	470	8*9	15	1128	4100
	560	6.3*12	18	1344	3500
	560	8*9	15	1344	4100
	680	8*9	15	1632	4100
	820	8*12	15	1968	4500
	1000	8*12	15	2400	4500
	1000	10*12.5	12	2400	5200
	1200	10*12.5	12	2880	5200
	1500	10*12.5	12	3600	5200
	1500	10*12.5	12	3600	5200
16	68	5*7	25	500	2100
	100	5*8	25	500	2100
	100	6.3*8	20	500	2100
	150	5*8	25	500	2100
	220	5*9	22	704	2690
	220	6.3*8	18	704	3100
	220	5*11	18	704	3100
	220	8*9	15	704	4100
	270	5*11	18	864	3100
	270	6.3*8	15	864	4100
	270	8*9	15	864	4500
	330	6.3*8	18	1056	3100
	330	6.3*12	18	1056	4100
	330	6.3*12	18	1056	4100

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Rated voltage (V)	Rated capacitance (μ F)	Case size Φ D×L(mm)	ESR(m Ω) at 20 °C, 100 KHz	Leakage Current (μ A)	Rated ripple current (mA _{rms} /105 °C/100kHz)
系數Coefficient	330	8*9	15	1056	4100
16	470	6.3*11	18	1504	3500
	470	8*9	15	1504	4100
	470	8*12	15	1504	4200
	470	10*12	14	1504	4200
	560	8*9	18	1792	3500
	560	8*12	15	1792	4100
	680	8*12	15	2176	4500
	680	10*12	14	2176	4500
	820	8*12	15	2624	4500
	820	10*12	14	2624	4800
	1000	8*12	15	3200	4800
	1000	10*12.5	14	3200	5200
	1200	10*12.5	14	4800	5200
	1200	10*12.5	14	4800	5200
25	68	6.3*8	40	500	2100
	68	8*9	30	500	3500
	82	6.3*8	40	500	2150
	82	8*9	30	500	3800
	100	6.3*8	40	500	2200
	100	5*9	40	500	2150
	150	6.3*8	40	750	4200
	150	6.3*12	35	750	4300
	220	6.3*8	40	1100	3800
	220	6.3*12	35	1100	3800
	220	8*12	25	1100	4200
	220	10*12	25	1100	4800
	330	6.3*12	35	1650	3800
	330	8*9	25	1650	4200
	330	8*12	25	1650	4200
	330	10*12	20	1650	4800
	390	6.3*12	35	1950	4200
	470	8*12	25	2350	4200
	470	10*12	20	2350	4800
	680	8*12	25	3400	4200
	680	10*12	20	3400	4800
	820	10*12.5	20	4100	4800
	1000	10*12.5	20	5000	4800