

M1 SERIES

Super low ESR, High ripple, miniaturized

SMD type: lead free reflow soldering condition at 260°C peak correspondence



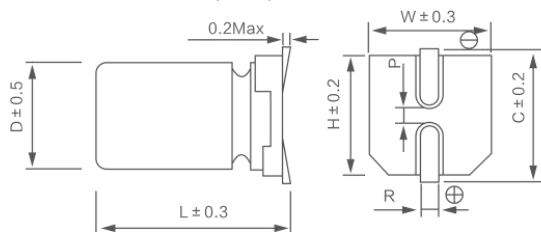
規格表 Specifications

項目Items		特性參數Characteristics			
使用溫度範圍 Category Temperature Range	-55 ~ +105℃				
額定工作電壓範圍 Rated Voltage Range	2.5 ~ 100V				
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℃) Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20℃			2.5~25V	35~100V
				I≤0.1CV 或 500 μ A(取大值)	I≤0.1CV 或 299 μ A(取大值)
損耗角正切值 tan δ Dissipation Factor	Rated voltage (V) tan δ (Max.)	2.5–6.3 0.08	10–100 0.12	(at 20℃,120Hz)	
溫度特性 Low Temperature Characteristics (Max.Impedance Ratio)	Z(–25℃)/Z(+20℃)				

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外形图Dimensions (mm)



ΦD	W	H	C	R	P
5	5.3	5.3	5.9	0.5~0.8	1.4
6.3	6.5	6.5	7.2	0.5~0.8	2.2
8	8.3	8.3	9.0	0.7~1.1	3.1
10	10.3	10.3	11.0	0.7~1.1	4.5

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紋波電流補正係數 Rated Ripple Current Coefficient

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

尺寸與個技術參數一覽表Standard Ratings

Rated voltage (V)	Rated capacitance (μF)	Case size ΦD x L(mm)	ESR(mΩ) at 20°C, 100 KHz	Leakage Current (μA)	Rated ripple current (mA rms/105°C/100kHz)
2.5	470	6.3*9	15	500	4500
	470	8*9.8	15	500	4800
	560	6.3*9	15	500	4500
	560	8*9.8	15	500	4800
	680	8*12.6	12	500	5100
	820	8*12.6	12	500	5100
4	560	8*9.8	15	500	4500
	680	8*12.6	12	544	4700
	820	10*12.6	12	656	5500
	1000	10*12.6	10	800	5500
	1200	10*12.6	10	960	5500
6.3	220	6.3*9	18	500	3900
	270	6.3*9	18	500	4100
	330	6.3*9	18	500	4100
	470	8*9.8	15	592	4500
	560	8*9.8	15	592	4500
	680	8*12.6	12	857	4700
	820	10*12.6	10	1033	5500
	1000	10*12.6	10	1260	5500
	1500	10*12.6	10	1890	5500
10	220	6.3*9	22	500	3500
	270	6.3*9	22	540	3500
	330	8*9.8	18	660	4100
	470	8*9.8	18	940	4230
	560	8*9.8	18	1120	4230
	680	8*12.6	15	1360	4500
	820	10*12.6	12	1640	5300
	1000	10*12.6	12	2000	5300
	47	6.3*9	25	500	2690
16	68	6.3*9	25	500	2690
	82	6.3*9	25	500	2690
	100	6.3*9	25	500	2690
	220	6.3*9	25	704	2690

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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)
16	220	8*9.8	20	704	3200
	220	8*12.6	16	704	4100
	270	8*9.8	20	864	3200
	330	6.3*9	22	1056	2690
	330	8*9.8	20	1056	3200
	330	8*12.6	16	1056	4100
	470	8*12.6	16	1504	4100
	470	10*12.6	14	1504	5100
	560	8*12.6	16	1792	4100
	680	10*12.6	14	2176	5100
	820	10*12.6	14	2624	5100
	1000	10*12.6	14	3200	5100
25	22	6.3*9	30	500	2100
	33	6.3*9	30	500	2100
	47	6.3*9	30	500	2100
	47	8*9.8	25	500	2690
	68	6.3*9	30	500	2100
	82	6.3*9	30	500	2100
	100	6.3*9	30	500	2100
	100	8*9.8	25	500	2690
	150	8*9.8	25	750	2690
	220	8*12.6	25	1100	2900
	220	10*12.6	20	1100	3500
	270	8*12.6	25	1350	2900
	330	10*12.6	20	1650	3500
	470	10*12.6	20	2350	3500
35	10	6.3*9	90	299	1350
	22	6.3*9	90	299	1410
	33	6.3*9	90	299	1410
	47	6.3*9	60	299	1410
	82	8*9.8	35	299	1900
	100	8*9.8	30	350	1900
	100	8*12.6	25	350	2690
	220	10*12.6	20	770	3100

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50	10	6.3*9	90	299	800
	22	6.3*9	90	299	850
	33	8*9.8	30	299	1300
	47	8*12.6	25	299	1500
	68	8*12.6	25	340	1500
	100	8*12.6	25	500	1500
	120	10*12.6	20	600	2100
	220	10*12.6	20	1100	2100
63	10	6.3*9	90	299	750
	22	8*9.8	35	299	1100
	33	8*9.8	35	299	1100
	33	8*12.6	30	299	1300
	47	8*12.6	30	299	1300
	68	8*12.6	30	428	1300
	82	10*12.6	25	517	1800
	100	10*12.6	25	630	1800
80	10	6.3*9	100	299	550
	22	8*9.8	50	299	1100
	22	8*12.6	40	299	1300
	33	8*12.6	40	299	1300
	47	10*12.6	35	376	1800
100	10	8*9.8	55	299	850
	15	8*12.6	45	299	1190
	22	10*12.6	40	299	1550
	33	10*12.6	40	330	1550