

MD series

- Miniture,Low impedance, 105°C 1000hours product.
- Applicable to small electronic devices.
- Height: 7 mm.
- RoHS Compliance
- 105°C 低阻抗、小型化1000小時壽命產品。
- 適用於小型電子設備。
- 高度：7mm系列。



SPECIFICATIONS

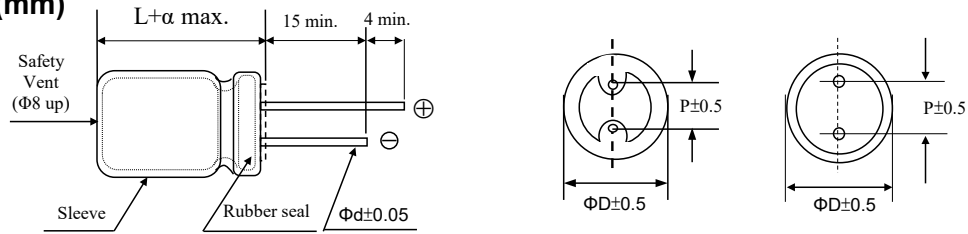
Items 項目	Characteristics 特性								
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)								
Operating Temperature Range 適用溫度範圍	-40 ~ +105°C								
Rated Voltage Range 額定電壓範圍	6.3 ~ 35VDC								
Leakage Current 洩漏電流	$I \leq 0.01CV$ or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 °C)								
Dissipation Factor 散逸因素($\tan \delta$)	Measurement Frequency: 120Hz. Temperature: 20°C								
	Rated Voltage(V)	6.3	10	16	25	35	40~ 50	63	100
	$\tan \delta$ (Max)	0.18	0.16	0.14	0.12	0.12	0.10	0.09	0.07
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.								
	Rated Voltage(V)	6.3	10	16	25	35			
	$Z(-25^\circ C)/Z(20^\circ C)$	2	2	2	2	2			
	$Z(-40^\circ C)/Z(20^\circ C)$	3	3	3	3	3			
Load Life 負荷壽命	1000hours,with application of rated voltage at 105°C								
	Capacitance Change	Within ± 20% of Initial Value							
	$\tan \delta$	200% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours 105°C without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C 5101-4.								
	Capacitance Change	Within ± 20% of Initial Value							
	$\tan \delta$	200% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Standards 參照標準	IEC 60384-4(JIS C 5101-4)								

Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	50	120	300	1K	10K ~ 100K
Coefficient	0.35	0.50	0.64	0.83	1.00

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DIMENSIONS(mm)



ΦD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
Φd	0.45	0.5	0.5	0.5

$$\alpha = 1.5$$

STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 100KHz, IMP (Ω max) at 20°C 100KHz.

Cap (μF)	V Item	6.3			10			16		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
15								4x7	70	3.3
22					4x7	70	3.3	5x7	110	1.7
33	5x7	110	1.7		5x7	115	1.7	6.3x7	160	0.8
47	5x7	110	1.7		5x7	143	1.3	6.3x7	165	0.8
68	6.3x7	160	0.8		6.3x7	165	0.8	8x7	200	0.5
100	6.3x7	160	0.8		8x7	200	0.5	8x7	210	0.5
150	8x7	200	0.5		8x7	205	0.5			
220	8x7	200	0.5							

Cap (μF)	V Item	25			35		
		D x L	R.C.	IMP	D x L	R.C.	IMP
6.8					4x7	70	3.3
10		4x7	70	3.3	5x7	110	1.7
15		5x7	110	1.7	6.3x7	132	1.7
22		5x7	110	1.7	6.3x7	160	0.8
33		6.3x7	160	0.8	8x7	200	0.5
47		8x7	200	0.5	8x7	230	0.5
68		8x7	200	0.5			
100		8x7	300	0.4			

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