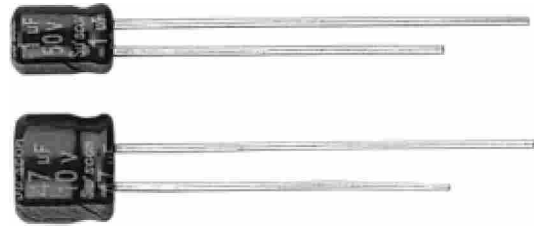


M5 series

- Low impedance over wide temperature rang of -55 ~ +105°C.
- With 5mm height.
- 低阻抗-55 ~ +105°C寬溫產品。
- 高度為5mm。



M5

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	-55 ~ +105°C					
Rated Voltage Range 工作電壓範圍	6.3 ~ 35V					
Leakage Current 洩漏電流	$I \leq 0.01CV$ or $3\mu A$ (After 2 minutes application of DC working voltage, at 20°C)					
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C					
	Rated Voltage (V)	6.3	10	16	25	35
	tan δ (Max)	0.22	0.20	0.18	0.14	0.12
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°C) / Z (20°C)	2	2	2	2	2
	Z (-55°C) / Z (20°C)	4	4	3	3	3
Load Life 負荷壽命	After 1,000hours, application of rated voltage at 105°C					
	Capacitance Change	Within ± 20% of Initial Value				
	tan δ	200% or less of Initial Specified Value				
	Leakage Current	Initial Specified Value or less				
Shelf Life 放置壽命	1,000hours, no voltage applied, at 105°C. After Test: U _R to be applied for 30 minutes, 24 to 48hours before measurement.					
	Capacitance Change	Within ± 20% of Initial Value				
	tan δ	200% or less of Initial Specified Value				
	Leakage Current	Initial Specified Value or less				
Standards 參照標準	JIS C 5101-4-1 and JIS C 5101-2					

PERMISSIBLE RIPPLE CURRENT

Temperature Coefficient

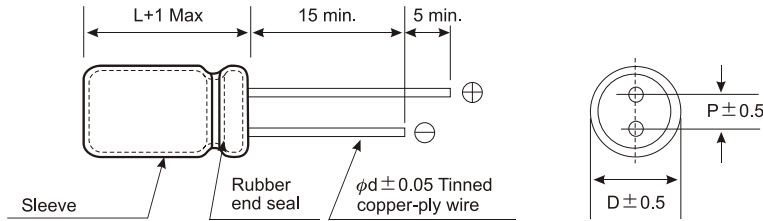
TEMP (°C)	65	75	85	95	105
Coefficient	2.10	1.90	1.70	1.50	1.00

Frequency Coefficient

Frequency (Hz)	50	120	300	1K	10K ~ 100K
Coefficient	0.50	0.65	0.70	0.90	1.00

M5 series

DIMENSIONS (mm)



ϕD	4	5	6.3
P	1.5	2.0	2.5
ϕd	0.45	0.45	0.45

STANDARD RATINGS

DxL (mm); R.C.: (mA rms) at 105°C, 100KHz: IMP(Ω max) at 20°C, 100KHz.

Cap (μF)	WV(V) (Code)	6.3 (0J)			10 (1A)			16 (1C)		
	Item	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
10								4 x 5	55	5.0
15								5 x 5	80	2.6
22		4 x 5	52	5.0	5 x 5	80	2.6	5 x 5	82	2.5
33		5 x 5	82	2.5	5 x 5	82	2.5	6.3 x 5	113	1.3
47		5 x 5	85	2.5	6.3 x 5	115	1.2	6.3 x 5	115	1.2
68		6.3 x 5	118	1.3						
100		6.3 x 5	120	1.2						

Cap (μF)	WV(V) (Code)	25 (1E)			35 (1V)		
	Item	D x L	R.C.	IMP	D x L	R.C.	IMP
1					4 x 5	48	5.0
1.5					4 x 5	49	4.9
2.2					4 x 5	50	4.9
3.3					4 x 5	52	4.8
4.7		4 x 5	49	5.0	4 x 5	55	4.8
6.8		4 x 5	52	4.8	5 x 5	80	2.6
10		5 x 5	82	2.5	5 x 5	85	2.5
15		6.3 x 5	116	1.3	6.3 x 5	116	1.3
22		6.3 x 5	118	1.2	6.3 x 5	118	1.2
33		6.3 x 5	120	1.1			