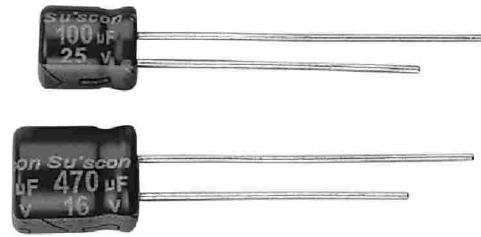


MD series

- Low impedance over wide temperature range of -55 ~ +105°C.
- With 7mm height.
- 低阻抗-55 ~ +105°C寬溫度品
- 高度為7mm



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 (μA) (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)	0.18	0.16	0.14	0.12	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)	3	3	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

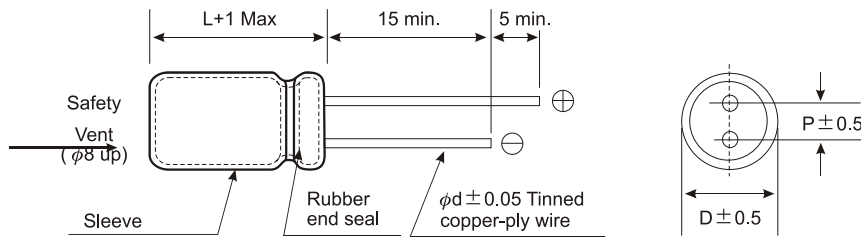
TEMP (°C)	65	75	85	95	105
Coefficient	2.10	1.90	1.70	1.50	1.00

Frequency Coefficient

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

MD series

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

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
15								4 x 7	70	3.3
22					4 x 7	70	3.3	5 x 7	110	1.7
33		5 x 7	110	1.7	5 x 7	115	1.7	6.3 x 7	160	0.8
47		5 x 7	110	1.7	5 x 7	143	1.3	6.3 x 7	165	0.8
68		6.3 x 7	160	0.8	6.3 x 7	165	0.8	8 x 7	200	0.5
100		6.3 x 7	160	0.8	8 x 7	200	0.5	8 x 7	210	0.5
150		8 x 7	200	0.5	8 x 7	205	0.5			
220		8 x 7	200	0.5						

Cap (μF)	WV(V) (Code)	25 (1E)			35 (1V)		
	Item	D x L	R.C.	IMP	D x L	R.C.	IMP
6.8					4 x 7	70	3.3
10		4 x 7	70	3.3	5 x 7	110	1.7
15		5 x 7	110	1.7	6.3 x 7	132	1.7
22		5 x 7	110	1.7	6.3 x 7	160	0.8
33		6.3 x 7	160	0.8	8 x 7	200	0.5
47		8 x 7	200	0.5	8 x 7	230	0.5
68		8 x 7	200	0.5			
100		8 x 7	300	0.4			

MD