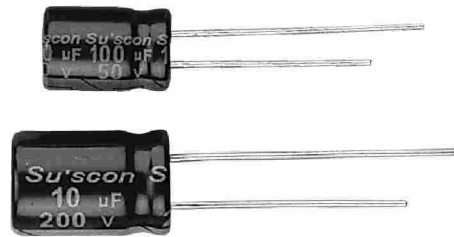


HE series

- Enabled high ripple current.
- 10,000 hours life.
- 耐高紋波電流。
- 10,000小時保證壽命品。



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	-25 ~ +105°C						
Rated Voltage Range 工作電壓範圍	160 ~ 450V						
Leakage Current 洩漏電流	$I \leq 0.04CV + 100 (\mu A)$, After 1 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)	160	200	250	350	400	450
	tan δ (Max)	0.15	0.15	0.15	0.20	0.20	0.20
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.						
	Rated Voltage (V)	160	200	250	350	400	450
	Z (-25°C) / Z (20°C)	3	3	3	6	6	6
Load Life 負荷壽命	10,000hours, with application of working voltage at 105°C (10 ϕ : 8000hours)						
	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

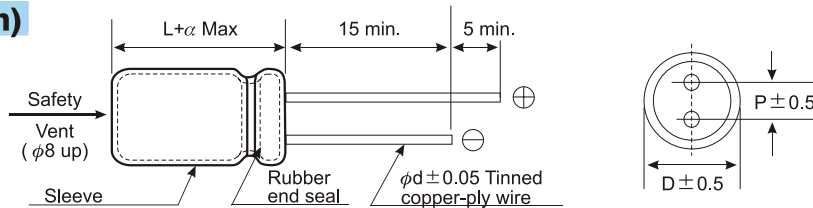
TEMP (°C)	65	75	85	95	105
Coefficient	2.10	1.90	1.70	1.50	1.00

Frequency Coefficient

Frequency (Hz)	50	120	1K	10K	100K
Coefficient	0.45	0.55	0.75	0.90	1.00

HE series

DIMENSIONS (mm)



ϕD	10	13	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6	0.6	0.8	0.8

α	(L < 16) 1.0 (L \geq 16) 2.0
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STANDARD RATINGS

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

Cap (μF)	WV(V) (Code)	160 (2C)		200 (2D)		250 (2E)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.
10		10x16	280	10x16	280	10x20	320
22		10x20	510	10x20	515	13x21	610
33		10x20	610	13x21	610	13x21	840
47		13x21	670	13x21	680	13x25	700
						16x22	720
68		13x25	900	13x25	980	16x26	1050
		16x22	950	16x22	1020	18x20	1130
100		16x26	1180	16x26	1300	16x32	1460
		18x20	1250	18x20	1430	18x25	1550
150		16x32	1365	16x32	1450	18x32	1800
		18x25	1410	18x25	1600		
220		16x32	1460	18x32	1730		
		18x25	1580				

Cap (μF)	WV(V) (Code)	350 (2V)		400 (2G)		450 (2W)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.
6.8		10x16	215	10x16	220	10x20	200
10		10x20	320	10x20	400	13x21	400
22		13x21	620	13x21	700	16x26	680
				16x22	730	18x20	700
33		16x22	840	16x26	860	16x32	920
				18x20	900	18x25	980
47		16x26	720	16x32	840	18x32	900
		18x20	760	18x25	850		
68		16x32	1230	18x32	1550		
		18x25	1400				

※ 13mm may be replaced by 12.5mm upon customer's request.