

- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current: 4,000 hours at 135°C
- Rated voltage range: 25 to 63Vdc, Capacitance range: 100 to 330μF
- For high temperature and high reliability applications. (Automotive equipment, Base station equipment, etc.)
- RoHS2 Compliant
- Halogen Free
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

HSE Higher temperature HSC

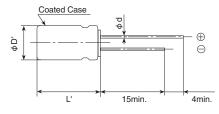


SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +135°C						
Rated Voltage Range	25 to 63V _{dc}						
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)						
Leakage Current	I=0.05CV Where, I: Max. leakage current (μ A), C: Nominal capacitance(μ F), V: Rated voltage(V) (at 20°C after 2 minutes)						
Dissipation Factor (tan δ)	0.16 max. (at 20℃, 120Hz)						
Low Temperature Characteristics (Max. Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \le 1.5$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 2.0$ (at 100kHz)						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 4,000 hours at 125°C or 135°C.						
	Capacitance change	$\leq \pm 30\%$ of the initial value					
	D.F. (tan δ)	\leq 200% of the initial specified value					
	ESR	\leq 200% of the initial specified value					
	Leakage current	\leq The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 135°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4.						
	Capacitance change	$\leq \pm 30\%$ of the initial value					
	D.F. (tan δ)	\leq 200% of the initial specified value					
	ESR	\leq 200% of the initial specified value					
	Leakage current ≤ The initial specified value						
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 85°C, 85% RH for 2,000 hours.						
	Appearance	No significant damage					
	Capacitance change	$\leq \pm 30\%$ of the initial value					
	D.F. (tan δ)) ≤ 200% of the initial specified value					
	ESR ≦ 200% of the initial specified value Leakage current ≤ The initial specified value						

◆DIMENSIONS [mm]

●Terminal Code : E





Size Code	JC5		
φD	10		
φd	0.6		
F	5.0		
φD'	φD+0.5max.		
L'	L+1.5max.		

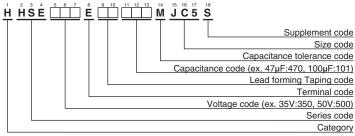
MARKING

EX) 35V270µF 270

Rated voltage symbol

•	-
Rated voltage (Vdc)	Symbol
25	Е
35	V
50	Н
63	.l

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (conductive polymer hybrid type)"





STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φD×L (mm)	ESR (mΩ max./20°C, 100kHz)	Rated ripp (mArms	ole current (100kHz)	Part No.
				125℃	135℃	
25	330	10×12.5	16	3,800	2,300	HHSE250E□□331MJC5S
35	270	10×12.5	17	3,700	2,200	HHSE350E□□271MJC5S
50	120	10×12.5	19	3,500	2,100	HHSE500E□□121MJC5S
63	100	10×12.5	20	3,400	2,000	HHSE630E□□101MJC5S

^{□□:}Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	5k	10k	20k	30k	100k to 500k
100, 120	0.10	0.40	0.60	0.70	0.80	0.80	1.00
270, 330	0.13	0.45	0.65	0.75	0.85	0.85	1.00

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APA1012122M010R APA1012821M016R SPT1EM101D110R SPT0JM101D080RVZC
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