



- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current: 4,000 hours at 125°C
- Rated voltage range: 25 to 80Vdc, Capacitance range: 56 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 Higher ripple HSC Higher temperature HSD

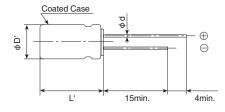


### **SPECIFICATIONS**

Items	Characteristics						
Category Temperature Range	-55 to +125℃						
Rated Voltage Range	25 to 80V <sub>dc</sub>	25 to 80V <sub>dc</sub>					
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)				
Leakage Current	I=0.05CV Where, I: Max. leakage current ( $\mu$ A), C: Nominal capacitance( $\mu$ F), V: Rated voltage(V) (at 20°C after 2 minutes)						
Dissipation Factor (tan $\delta$ )	0.16 max. (at 20°C, 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.						
	Capacitance change	$\leq \pm 30\%$ of the initial value					
	D.F. (tan $\delta$ )	$\leq$ 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 1 without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 c C 5101-4.						
	Capacitance change	$\leq \pm 30\%$ of the initial value					
	D.F. (tan $\delta$ )	≤ 200% of the initial specified value					
	ESR	$\leq$ 200% of the initial specified value					
	Leakage current	$\leq$ 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 volta 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	$\leq$ The initial specified value					

# **◆DIMENSIONS** [mm]

# ●Terminal Code : E





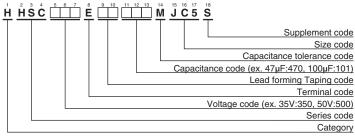
Size Code	JC5		
φD	10		
φd	0.6		
F	5.0		
φD'	φD+0.5max.		
Ľ	L+1.5max.		

## **◆**MARKING

#### Rated voltage symbol

Rated voltage (Vdc)	Symbol
25	E
35	V
50	Н
63	J
80	K

# **◆PART NUMBERING SYSTEM**



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





## **STANDARD RATINGS**

WV (V <sub>dc</sub> )	Cap (µF)	Case size φD×L (mm)	ESR (mΩ max./20°C, 100kHz)	Rated ripple current (mArms/125℃, 100kHz)	Part No.
25	330	10×12.5	16	2,300	HHSC250E□□331MJC5S
35	270	10×12.5	17	2,200	HHSC350E□□271MJC5S
50	120	10×12.5	19	2,100	HHSC500E□□121MJC5S
63	100	10×12.5	20	2,000	HHSC630E□□101MJC5S
80	56	10×12.5	28	1,900	HHSC800E□□560MJC5S

<sup>□□:</sup>Enter the appropriate lead forming or taping code.

## **TATED RIPPLE CURRENT MULTIPLIERS**

#### Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	5k	10k	20k	30k	100k to 500k
56 to 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