



- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current : 10,000 hours at 105°C
- For 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.

HSC Higher temperature

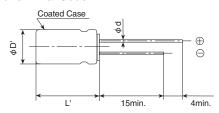


SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +105℃						
Rated Voltage Range	25 to 80V _{dc}						
Capacitance Tolerance	±20% (M)	±20% (M) (at 20°C, 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)	$Z(-25^{\circ}C)/Z(+20^{\circ}C)$ ≦1.5 $Z(-55^{\circ}C)/Z(+20^{\circ}C)$ ≦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 rate ripple current is applied (the peak voltage shall not exceed the rated voltage) for 10,000 hours at 105 °C.						
	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					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hou without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to its C 5101-4.						
	Capacitance change						
	D.F. (tan δ)						
	ESR ≦ 200% of the initial specified value Leakage current ≤ The initial specified value						
Bias Humidity Test							
	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.			

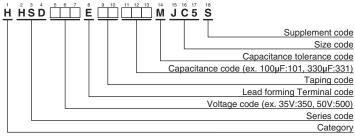
◆MARKING

EX) 25V330μF Θ 4D8 330 E HD ⊕

●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 _{dc})	Cap (µF)	Case size φ D×L (mm)	ESR (mΩ max./20°C, 100kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
25	330	10×12.5	16	3,100	HHSD250E□□331MJC5S
25	470	10×12.5	16	3,100	HHSD250E□□471MJC5S
35	270	10×12.5	17	3,000	HHSD350E□□271MJC5S
	330	10×12.5	17	3,000	HHSD350E□□331MJC5S
50	120	10×12.5	19	2,800	HHSD500E□□121MJC5S
	180	10×12.5	19	3,000	HHSD500E□□181MJC5S
63	100	10×12.5	20	2,600	HHSD630E□□101MJC5S
	120	10×12.5	20	3,000	HHSD630E□□121MJC5S
80	68	10×12.5	28	3,000	HHSD800E□□680MJC5S

^{□ :}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
68 to 180	0.10	0.40	0.60	0.70	0.80	0.80	1.00
270 to 470	0.13	0.45	0.65	0.75	0.85	0.85	1.00