

HSD *Upgrade!*

- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current : 10,000 hours at 105°C
- Rated voltage range : 25 to 80V_{dc}, Capacitance range : 68 to 470μF
- 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.

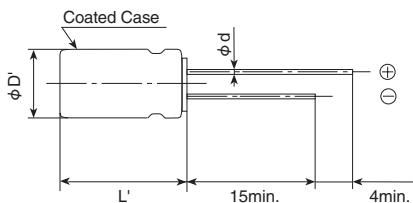


◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	25 to 80V _{dc}	
Capacitance Tolerance	±20% (M)	(at 20°C, 120Hz)
Leakage Current	$I=0.05CV$ Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V)	(at 20°C after 2 minutes)
Dissipation Factor (tan δ)	0.16 max.	(at 20°C, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	$Z(-25°C)/Z(+20°C) \leq 1.5$ $Z(-55°C)/Z(+20°C) \leq 2.0$	(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 10,000 hours at 105 °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 105 °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 \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 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) $\leq 200\%$ of the initial specified value ESR $\leq 200\%$ 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.
L'	L+1.5max.

◆MARKING

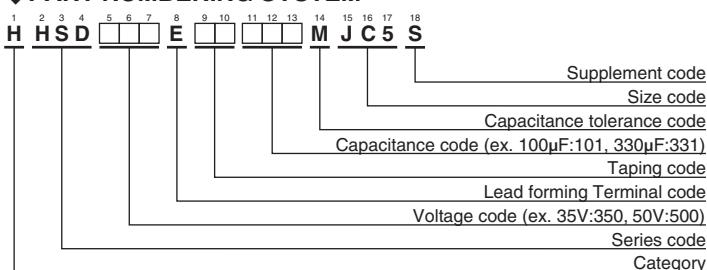
EX) 25V330μF



- Rated voltage symbol

Rated voltage (V _{dc})	Symbol
25	E
35	V
50	H
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 (mA rms/105°C, 100kHz)	Part No.
25	470	10×12.5	16	3,100	HHSD250E□□471MJC5S
35	330	10×12.5	17	3,000	HHSD350E□□331MJC5S
50	180	10×12.5	19	3,000	HHSD500E□□181MJC5S
63	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

① Frequency Multipliers

Capacitance(μF)	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
390, 470	0.13	0.45	0.65	0.75	0.85	0.85	1.00

Mouser Electronics

Authorized Distributor

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[United Chemi-Con \(UCC\):](#)

[HHSD250ELL331MJC5S](#) [HHSD350ELL271MJC5S](#) [HHSD500ELL121MJC5S](#) [HHSD630ELL101MJC5S](#)