

DYNACAP – Double Layer Capacitor

DH Series

DH Series is the most reliable of its type in the industry, with a guaranteed 1,000 hours life between charges at 85°C. A rated voltage of 5.5V is achieved by internally joining three coin cells incorporating ELNA flat spring technology. It is ideal for equipment operating at 40°C or higher.



Construction and Dimensions

CAP (F)	∅D x L (mm)
0.047 0.1 0.22	13.5 x 9.5
0.47 1.0	21.5 x 9.5

Unit: mm

Specifications	Performance												
Temperature range (°C)	-25 to +85												
Capacitance tolerance (%)	-20 to +80												
Internal resistance at 1KHz	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Capacitance (F)</td> <td>0.047</td> <td>0.1</td> <td>0.22</td> <td>0.47</td> <td>1.0</td> </tr> <tr> <td>Internal resistance (Ω)</td> <td>300</td> <td>200</td> <td>120</td> <td>50</td> <td>30</td> </tr> </table>	Capacitance (F)	0.047	0.1	0.22	0.47	1.0	Internal resistance (Ω)	300	200	120	50	30
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Stability at low & high temperature	<table border="1" style="width: 100%;"> <tr> <td>Change in capacitance</td> <td>Within ±30% of value at 20°C</td> </tr> <tr> <td>Internal resistance</td> <td>Less than five times of the value at 20°C</td> </tr> </table>	Change in capacitance	Within ±30% of value at 20°C	Internal resistance	Less than five times of the value at 20°C								
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Endurance (85°C)	<table border="1" style="width: 100%;"> <tr> <td>Test time</td> <td>1000 hrs</td> </tr> <tr> <td>Change in capacitance</td> <td>Within ±30% of the initial measured value</td> </tr> <tr> <td>Internal resistance</td> <td>Within four times the initial specified value</td> </tr> </table>	Test time	1000 hrs	Change in capacitance	Within ±30% of the initial measured value	Internal resistance	Within four times the initial specified value						
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Max. storage temp. (85°C)	Test time 1000hrs. Same as Endurance												

Standard Ratings

ELNA Part No.	Rated Volt (V)	Capacitance (F)	Internal Resistance (Ω)
DH-5R5D473	5.5	0.047	≤300
DH-5R5D104	5.5	0.1	≤200
DH-5R5D224	5.5	0.22	≤120
DH-5R5D474	5.5	0.47	≤50
DH-5R5D105	5.5	1.0	≤30