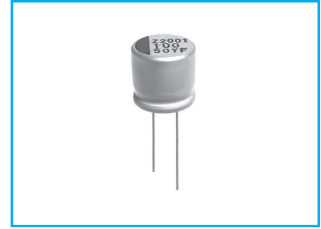


CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS



Upgrade
YF

Lead type, Ultra High Temperature Series



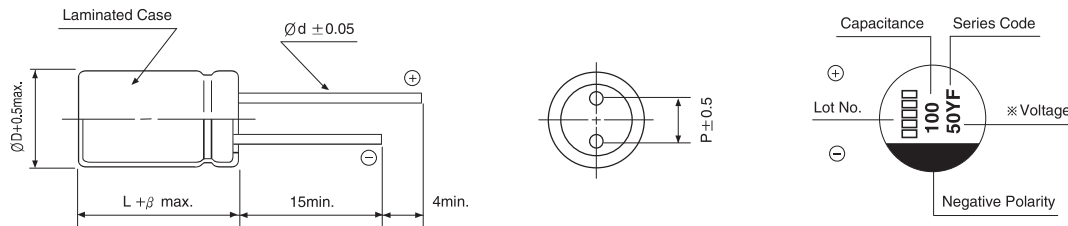
- High temperature range, for 150°C use
- Complied to the RoHS directive
- AEC-Q200 compliant : Please contact us for more details.

HYBRID TYPES

Item	Characteristics										
Operating temperature range	-55 ~ +150°C										
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)										
Capacitance tolerance	±20% at 120Hz, 20°C										
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <tr> <td>WV</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tanδ</td> <td>0.14</td> <td>0.12</td> <td>0.1</td> <td>0.08</td> </tr> </table>	WV	25	35	50	63	tanδ	0.14	0.12	0.1	0.08
WV	25	35	50	63							
tanδ	0.14	0.12	0.1	0.08							
Low temperature characteristics (Impedance ratio at 100kHz)	$Z (-25^{\circ}\text{C}) / Z (+20^{\circ}\text{C}) \leq 1.5$ $Z (-55^{\circ}\text{C}) / Z (+20^{\circ}\text{C}) \leq 2.0$										
Load life	<p>After an application of DC bias voltage plus the rated AC ripple current for 1000 hours at 150°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.</p> <table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>tanδ</td> <td>Less than 200% of the specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than specified value</td> </tr> </table>	Capacitance change	Within ±30% of initial value	tanδ	Less than 200% of the specified value	ESR	Less than 200% of the specified value	Leakage current	Less than specified value		
Capacitance change	Within ±30% of initial value										
tanδ	Less than 200% of the specified value										
ESR	Less than 200% of the specified value										
Leakage current	Less than specified value										
Shelf life (at 150°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4										

● DRAWING

Unit : mm



Size	øD	L	P	ød	β
6.3×7.5	6.3	7.5	2.5	0.45	1.5
8×9.5	8	9.5	3.5	0.60	1.5
10×9.5	10.0	9.5	5.0	0.60	1.5
10×12	10.0	12.0	5.0	0.60	1.5

● PACKING & TAPING (See page 82~84)

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	25		35		50		63				
15							6.3×7.5	80	410		
22					6.3×7.5	80	410				
33							8×9.5	40	610		
47			6.3×7.5	60	510						
56						8×9.5	35	660	10×9.5	30	710
68	6.3×7.5	45	540					10×12	22	810	
100				8×9.5	30	710	10×9.5	28	780		
120							10×12	19	890		
150	8×9.5	27	740	10×9.5	23	830					
220				10×12	17	950					
270	10×9.5	22	850								
330	10×12	16	970								

↑ Ripple current (mA rms) at 150°C, 100kHz
 ↑ ESR (mΩ) at 20°C, 100kHz
 ↑ Case size øD×L(mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	120Hz	1kHz	10kHz	100kHz
Coefficient	0.05	0.30	0.70	1.00