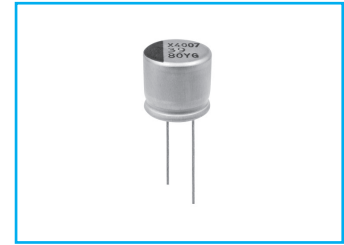


# CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

**YG** Lead type, High Temperature Series

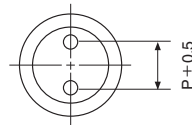
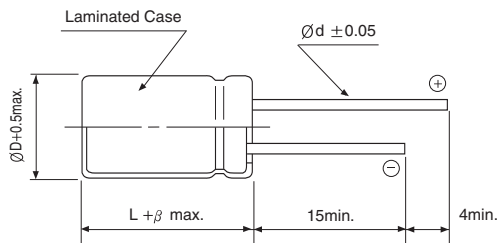


- High temperature range, for 125°C use
- Complied to the RoHS directive

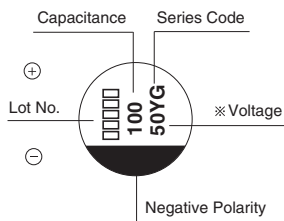
Item	Characteristics												
Operating temperature range	-55 ~ +125°C												
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)												
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C												
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <tr> <td>WV</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63 ~ 100</td> </tr> <tr> <td><math>\tan\delta</math></td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> </tr> </table>	WV	16	25	35	50	63 ~ 100	$\tan\delta$	0.16	0.14	0.12	0.10	0.08
	WV	16	25	35	50	63 ~ 100							
$\tan\delta$	0.16	0.14	0.12	0.10	0.08								
Low temperature characteristics (Impedance ratio at 100kHz)	$Z(-25^\circ C) / Z(+20^\circ C) \leq 1.5$ $Z(-55^\circ C) / Z(+20^\circ C) \leq 2.0$												
Load life	After an application of DC bias voltage plus the rated AC ripple current for 4000 hours at 125°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage.												
	<table border="1"> <tr> <td>Capacitance change</td> <td>Within <math>\pm 30\%</math> of initial value</td> </tr> <tr> <td><math>\tan\delta</math></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 $\pm 30\%$ of initial value	$\tan\delta$	Less than 200% of the specified value	ESR	Less than 200% of the specified value	Leakage current	Less than specified value				
	Capacitance change	Within $\pm 30\%$ of initial value											
	$\tan\delta$	Less than 200% of the specified value											
ESR	Less than 200% of the specified value												
Leakage current	Less than specified value												
Shelf life(at 125°C)	After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ 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 88~90)

**YG** series

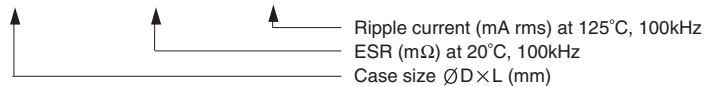
HYBRID TYPES

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$ \diagdown WV	16			25			35		
47							6.3×7.5	35	1400
68				6.3×7.5	30	1400	6.3×7.5	35	1400
100				6.3×7.5	30	1400	8×9.5	27	1600
150	6.3×7.5	27	1450	8×9.5	27	1600	8×9.5	27	1600
							10×9.5	20	2000
220				8×9.5	27	1600			
270	8×9.5	22	1700	10×9.5	20	2000	10×9.5	20	2000
330				10×9.5	20	2000	10×12	17	2260
470	10×9.5	18	2100	10×12	16	2260			
560	10×12	14	2320						

$\mu\text{F}$ \diagdown WV	50			63			80		
10				6.3×7.5	80	900			
15	6.3×7.5	40	1100						
22				6.3×7.5	80	900	8×9.5	45	1100
				8×9.5	40	1100			
33	6.3×7.5	40	1100	8×9.5	40	1100			
	8×9.5	30	1250	10×9.5	30	1400			
39							10×9.5	35	1200
47	8×9.5	30	1250				10×12	32	1400
56	10×9.5	25	1600	10×9.5	30	1400			
68	10×9.5	25	1600	10×12	22	1650			
100	10×9.5	25	1600						
150	10×12	19	1820						

$\mu\text{F}$ \diagdown WV	100		
10	8×9.5	60	900
15	10×9.5	45	1120
18	10×12	40	1220



● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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