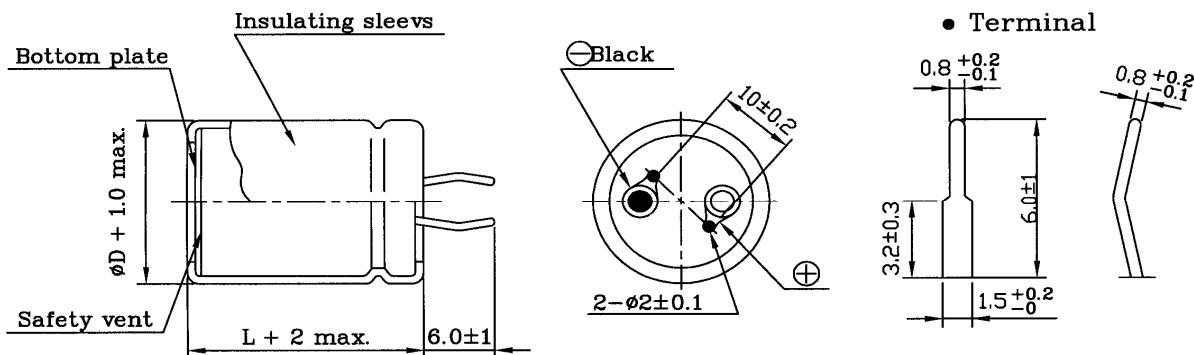


- 105°C 5000 hours assured life.
- Directly mountable on printed circuit board without holders.
- Low ESR and long life.
- Terminal spacing fixed at 10mm for PC board plug in.
- Aluminum case designed explosion-proof vent.

### Characteristics

Voltage Range	10 ~ 100V				160 ~ 500V							
Capacitance Range	560 ~ 47000uF				47 ~ 1500uF							
Temperature Range	-40 ~ +105°C				-25 ~ +105°C							
Capacitance Tolerance	$\pm 20\%$ at 120Hz , 20°C( 10% Tol. is available upon request)											
Leakage Current	$I = 3\sqrt{CV}$ (uA) max C: Capacitance, V:W.V. (After 5 minutes)											
Dissipation Factor ( $\tan\delta$ )	Rated voltage	10	16	25	35	50	63 ~ 400	450	500			
	$\tan\delta$	0.55	0.40	0.30	0.25	0.20	0.15	0.20	0.25			
at 20°C, 120Hz												
Stability at Low Temperature	Impedance ration at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed the values given below.											
	Rated Voltage (V)	10, 16	25	35	50, 63	80, 100	160~400	450~500				
	Z-25°C/Z 20°C	4	3	3	2	2	4	6				
Load Life	Z-40°C/Z 20°C	15	10	8	6	5	-	-				
	The following specifications shall be satisfied when the capacitors are restored to 20°C after rated working voltage applied for 5,000 hours at max. Operating temperature.											
	Capacitance change	$\leq \pm 25\%$ of the initial value.										
Shelf Life	Dissipation factor	$\leq \pm 250\%$ of the initial specified value										
	Leakage current	$\leq$ The initial specified value.										
	After storage for 1000 hours at 105°C with no voltage applied, the capacitor shall meet the specified limit in load life.											

### Diagram of dimensions



### Multiplier for Ripple Current VS Frequency

W.V.(Vdc)\(Hz)	50/60	120	300	1K	10K	50K
10 ~ 50	0.95	1	1.03	1.05	1.08	1.08
63 ~ 100	0.93	1	1.07	1.13	1.19	1.20
160 ~ 250	0.81	1	1.17	1.32	1.45	1.50
350 ~ 500	0.71	1	1.16	1.30	1.41	1.43

	22	25	30	35
$\alpha$	2	2	3	3

## **Case size & Maximum Ripple Current (A rms 105°C 120Hz) & ESR. (Ω 20°C 120Hz)**

φ DxL (mm)

WV Cap	ΦD	10										
		A			B			C			D	
uF	Size	RC	ESR									
<b>6800</b>	22x25	1.30	0.107									
<b>8200</b>	22x25	1.56	0.089									
<b>10000</b>	22x30	1.60	0.073	25x25	1.60	0.073						
<b>12000</b>	22x35	1.80	0.061	25x30	1.80	0.061	30x25	1.80	0.061			
<b>15000</b>	22x35	2.10	0.049	25x30	2.10	0.049	30x25	1.80	0.049			
<b>18000</b>	22x35	2.20	0.041	25x30	2.20	0.041						
<b>22000</b>	22x40	2.75	0.033	25x35	2.75	0.033	30x30	2.75	0.033	35x25	2.75	0.033
<b>27000</b>	25x50	3.05	0.027	25x50	3.05	0.027	30x40	3.05	0.027	35x30	3.05	0.027
<b>33000</b>	25x50	3.40	0.022	30x40	3.40	0.022	35x35	3.40	0.022			
<b>39000</b>	30x50	3.60	0.019	35x40	3.60	0.019						
<b>47000</b>	30x50	4.60	0.016	35x50	4.60	0.016						

WV Cap	ϕ D	16										
		A			B			C			D	
uF	Size	RC	ESR	Size	RC	ESR	Size	RC	ESR	Size	RC	ESR
<b>5600</b>	22x25	1.40	0.095									
<b>6800</b>	22x30	1.60	0.078	25x25	1.60	0.078						
<b>8200</b>	22x35	1.80	0.065	25x30	1.80	0.065						
<b>10000</b>	22x40	2.10	0.053	25x30	2.10	0.053	30x25	2.10	0.053			
<b>12000</b>	22x40	2.40	0.044	25x35	2.40	0.044	30x25	2.40	0.044			
<b>15000</b>	22x50	2.70	0.035	25x40	2.70	0.035	30x30	2.70	0.035			
<b>18000</b>	25x50	3.05	0.029	30x35	3.05	0.029	35x30	3.05	0.029			
<b>22000</b>	25x50	3.40	0.024	30x40	3.40	0.024	35x45	3.40	0.024			
<b>27000</b>	30x50	4.02	0.020	35x40	4.02	0.020						
<b>33000</b>	30x50	4.32	0.016	35x40	4.32	0.016						
<b>39000</b>	35x50	4.95	0.014	35x50	4.95	0.014						

## **Case size & Maximum Ripple Current (A rms 105°C 120Hz) & ESR. ( $\Omega$ 20°C 120Hz)**

$\phi$  DxL (mm)

## **Case size & Maximum Ripple Current (A rms 105°C 120Hz) & ESR. (Ω 20°C 120Hz)**

$\phi$  DxL (mm)

## **Case size & Maximum Ripple Current (A rms 105°C 120Hz) & ESR. ( $\Omega$ 20°C 120Hz)**

$\phi$  DxL (mm)

## **Case size & Maximum Ripple Current (A rms 105°C 120Hz) & ESR. ( $\Omega$ 20°C 120Hz)**

$\phi$  DxL (mm)

## **Part Numbering Designation**

<b><u>EHL</u></b>	<b><u>101</u></b>	<b><u>M</u></b>	<b><u>2G</u></b>	<b><u>B</u></b>	<b><u>A</u></b>
SERIES	CAPACITANCE	TOL.	W.V.	PACKAGE	SIZE
	IN 3DIGITS	M= ± 20%	16= 16V	B= Bulk	A= A Size
	101= 100uF	K= ± 10%	25= 25V		B= B Size
	102= 1000uF		35= 35V		C= C Size
	103= 10,000uF		50= 50V		D=D Size
			63= 63V		
			80= 80V		
			2A= 100V		
			2C= 160V		
			2D= 200V		
			2E= 250V		
			2V= 350V		
			2G= 400V		
			2W= 450V		
			2H= 500V		