

- 超低インピーダンス
ATWB シリーズ JIS C5101
CE-04
(耐洗淨品)

- **Ultra Low Impedance TYPE**
TYPE ATWB JIS C5101
CE-04
(Washable product)

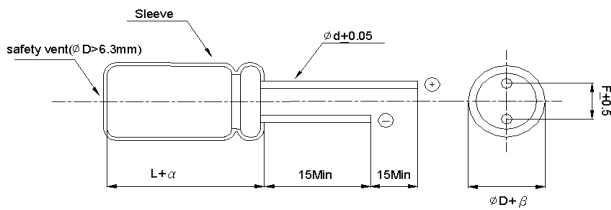
■ 特 徴

- 105°C・2,000 時間保証の Ultra Low Impedance です。
- VRM 回路用低インピーダンス。

■ FEATURES

- This product is Ultra Low Impedance type with the Load Life of 2,000 hours at 105°C.
- Ultra Low Impedance for VRM.

■ 寸法図/DIAGRAM OF DIMENSIONS



Unit : mm

ΦD	8	10
F	3.5	5.0
Φd	0.6 L=11.5, Φd=0.5	
α	1.0	
β	0.5	

■ 性能/PERFORMANCE SPECIFICATION

カテゴリ温度範囲	Category Temperature Range	-25 ~+ 105°C										
標準静電容量許容差	Capacitance Tolerance	±20%(M) (at 20°C・120Hz)										
漏れ電流 (最大値)	Leakage Current	I = 0.03CV or 3μA whichever is greater C: Nominal capacitance (μF), V : Rated voltage(V) (at 20°C, after 2 minutes)										
損失角の正接 (最大値) (tanδ)	Dissipation Factor (tanδ)	<table border="1"> <tr> <td>W.V.</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> </tr> <tr> <td>tanδ</td> <td>0.30</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> </tr> </table> (at 20°C, 120Hz) When nominal capacitance is over 1,000uF, tanδ shall be added 0.02 to the listed value with every increase of 1,000uF	W.V.	4	6.3	10	16	tanδ	0.30	0.22	0.19	0.16
W.V.	4	6.3	10	16								
tanδ	0.30	0.22	0.19	0.16								
耐久性 105°C 2,000時間 定格使用電圧印加	Endurance Application of rated operating voltage at 105°C for 2,000 hours	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 for the specified period of time at 105°C <table border="1"> <tr> <td>Capacitance Change</td> <td>≤ ±30% of the initial value(L=8x9 : ±40%)</td> </tr> <tr> <td>D.F.(tanδ)</td> <td>≤ 200% of the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>≤ The initial specified value</td> </tr> </table>	Capacitance Change	≤ ±30% of the initial value(L=8x9 : ±40%)	D.F.(tanδ)	≤ 200% of the initial specified value	Leakage Current	≤ The initial specified value				
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Leakage Current	≤ The initial specified value											
低温特性 (+20°Cにおける 120Hzのインピーダンスに対する比)(最大値)	Low Temperature Characteristics (Ratio of impedance at cold to that at 20°C, 120Hz Max.value)	<table border="1"> <tr> <td>W.V</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	W.V	4	6.3	10	16	Z(-25°C)/Z(+20°C)	3	3	3	3
W.V	4	6.3	10	16								
Z(-25°C)/Z(+20°C)	3	3	3	3								
その他の特性は JIS C5101-4 に準ずる	The other characteristics	The other characteristics are based on JIS C 5101-4										

■ 定格リップル電流補正係数

リップル周波数が標準品一覧表の規定値と異なる場合には、下表の係数を乗じた値以下でご使用下さい。

When the ripple frequency differs from the specification shown in the list of standard products, multiply the value with the coefficient shown below, and use the products under the obtained value.

周波数補正係数/FREQUENCY CORRECTION FACTOR

Frequency(Hz)	120Hz	1kHz	10kHz	100kHz
Coefficient	0.50	0.80	0.90	1.00



■ 寸法表/CASE SIZE TABLE Unit : mm ■ Impedance [Max. Value Ω] at 20°C 100kHz
 ■ Ripple current [Max. Value mA] at 105°C 100kHz

Capacitance (μ F)	4.0V (0G)			6.3V (0J)			10V (1A)		
	Φ DxL	Impedance	Ripple	Φ DxL	Impedance	Ripple	Φ DxL	Impedance	Ripple
680	8x9	0.032	750				8x11.5	0.025	1,300
820				8x11.5	0.025	1,300			
1,000	8x11.5	0.025	1,300	8x11.5	0.025	1,300	8x16	0.018	1,850
1,200				8x16	0.018	1,850	10x12.5	0.018	1,960
1,500				10x12.5	0.018	1,960	8x20	0.016	2,100
1,800	8x20	0.016	2,100	8x20	0.016	2,100	10x16	0.014	2,460
2,200	10x20	0.013	2,800	10x20	0.013	2,800	10x20	0.013	2,800
3,300	10x25	0.012	3,230	10x25	0.012	3,230	10x25	0.012	3,230

Capacitance (μ F)	16V (1C)		
	Φ DxL	Impedance	Ripple
470	8x11.5	0.025	1,300
680	8x16	0.018	1,850
680	10x12.5	0.018	1,960
1,000	8x20	0.016	2,100
1,000	10x16	0.014	2,460
1,500	10x20	0.013	2,800
1,800	10x25	0.012	3,230

■ 品番ご指定法/HOW TO SPECIFY ITEM NUMBER

