ALUMINUM ELECTROLYTIC CAPACITORS



- Improved safety feature for abnormally excessive voltage.
- High ripple current product.
- Compliant to the RoHS directive (2011/65/EU).

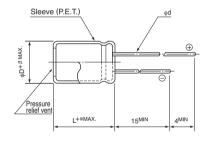




Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 to +105°C								
Rated Voltage Range	200 · 400V								
Rated Capacitance Range	10 to 220μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 1 minute's application of rated voltage	ge at 20°C, lea	kage curre	nt is	0.04CV+100 (μA) or less.			
Tangent of loss angle (tan δ)	Rated voltage (V) 200 400 Measurement frequency:120Hz at 20°C tan δ (MAX.) 0.15 0.15								
	Rated voltage (V)		200		400	Measurement frequency : 120Hz			
Stability at Low Temperature	Z-25	°C / Z+20°C	3 8		8	• •			
	Impedance ratio ZT / Z20 (MAX.) Z-40	°C / Z+20°C	6		10				
	The specifications listed at right shall be met when the Capacitance change Within ±20% of the initial capacitance value								
Endurance	capacitors are restored to 20°C after D.C.	ea –		acitance change	200% or less than the initial specified value				
Eliquialice	ripple current is applied for 2000 hours at		ak tan δ Leakage current			Less than or equal to the initial specified value			
	voltage shall not exceed the rated voltage	Less than of equal to the initial specified value							
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4								
Sileli Lile	clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.								
	The pressure relief vent will operate in normal conditions, with no dangerous conditions such as flames, ignitions or dispersion of pieces of the capacitor and / or case.								
Safety Performance	voltage (V)					onditions			
	voltage (V)	Limited DC current				Test Voltage			
	200	4A				300VDC and 375VDC			
	400	2A				500VDC and 600VDC			
Marking	Printed with white color letter on dark bro	wn sleeve.							

■ Radial Lead Type



• Please refer to page 20 about the end seal configuration.

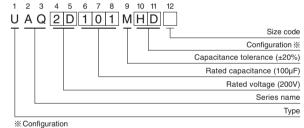


φD 10 12.5 16 18 22 β 0.5 0.5 0.5 0.5 1.0 P 5.0 5.0 7.5 7.5 10 φd 0.6 0.6 0.8 0.8 1.0

In case L>25 for ϕ 12.5 (D) case sizes, lead diameter ϕ 0.8 (d) will be applied.

α	(φD≦18) 2.0			
	(φD >18) 3.0			

Type numbering system (Example : 200V $100\mu F$)



φ D Pb-free leadwire Pb-free PET sleeve
10 PD
12.5 to 18 HD

22

RD

Dimensions

	V(Code)			200 (2D)		400 (2G)					
Cap.(µF)	Code ϕD	φ 10	φ12.5	φ 1 6	φ 18	ф 22	φ12.5	φ 16	φ 18	ф 22	
10	100						12.5 × 20				
10	100						100				
22	22 220	10 × 20					12.5 × 31.5	<u>016 × 20</u>	L		
22	220	120					145	145			
33	330	10 × 25	<u>012.5 × 20</u>				12.5 × 40	<u>016 × 25</u>	<u>* 18 × 20</u>		
33	330	160	160				195	195	195		
47	7 470	470	10 × 31.5	<u>012.5 × 20</u>					16 × 35.5	<u>°18 × 25</u>	*22 × 20
41	470	195	195					280	280	280	
56	56 560		12. <u>5 × 25</u>					16 × 35.5	○18 × 31.5	*22 × 25	
30	300		210					320	320	320	
68	68 680	L	12.5 × 25					16 × 40	<u> ○18 × 35.5</u>		
00	000		250					350	350		
82	82 820	L	12.5 × 31.5	016 × 20					18 × 40		
02	020		285	285					420		
100	101		12.5 × 35.5	<u>016 × 25</u>	* 18 × 20				L		
	101		335	335	335						
150	150 151	L		16 × 31.5	○18 × 25	* 22 × 20			L		
150	101			435	435	435					
180	180 181	L		16 × 35.5	○18 × 31.5	* 22 × 25	ļ		L		
.50	.51			495	495	495				0	
220	221	L			18 × 35.5				L	Case size φ D×L (mm)	
220	220 221				575					Rated ripple	

• Frequency coefficient of rated ripple current

Frequency	50, 60Hz	120Hz	300Hz	1kHz	10kHz or more
Coefficient	0.80	1.00	1.25	1.40	1.60

Rated ripple current (mArms) at 105°C 120Hz

- : In case of low profile type, 6 will be put at 12th digit of type numbering system.
- $\ensuremath{\,*}$: For further low profile product, $\boxed{\ensuremath{\mathbf{3}}}$ will be put at 12th digit.

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.

CAT.8100D