

- Improved safety feature for abnormally excessive voltage.
- High ripple current product.
- Adapted to the RoHS directive (2002/95/EC).

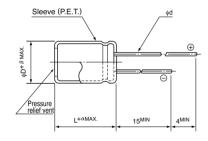




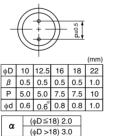
■ Specifications

Item	Performance Characteristics								
Category Temperature Range	-40 ~ +105°C								
Rated Voltage Range	200 · 400V								
Rated Capacitance Range	10 ~ 220μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 1 minute's application of rated voltage, leakage current is 0.04CV+100 (µA) or less.								
tan δ	Rated voltage (V) 200 400 tan δ (MAX.) 0.15 0.15 Measurement frequency:120Hz, Temperature:20°C								
	Rated voltage (V)		200		400	Measurement frequency: 120Hz			
Stability at Low Temperature	Z-25°	C / Z+20°C	3		8	• •			
	Impedance ratio ZT / Z20 (MAX.) Z-40°	C / Z+20°C	6		10				
	After an application of D.C. bias voltage placerent for 2000 hours at 105°C the peak				e Within ±20% of initial value				
Endurance	exceed the rated D.C. voltage, capacitors		tan δ			200% or less of initial specified value			
	characteristic requirements listed at right.		Lea	akage current	Initial specified value or less				
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for 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	valtage (V)	Test conditions							
	voltage (V)	Limited DC current				Test Voltage			
	200	4A				300VDC and 375VDC			
	400		2A	2A		500VDC and 600VDC			
Marking	Printed with white color letter on dark brov	vn sleeve.							

■Radial Lead Type

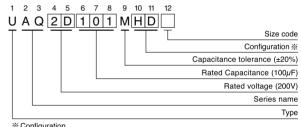


 Please refer to page 21 about the end seal configulation.



In case L>25 for φ12.5 (D) case sizes, lead diameter φ0.8 (d) will be applied.

Type numbering system (Example : 200V 100 μF)



A Corniguration					
φD	Pb-free leadwire Pb-free PET sleeve				
10	PD				
12.5 ~ 18	HD				
22	RD				

Dimensions

V(Code)		200 (2D)					400 (2G)			
Cap.(µF)	Code ϕD	φ 10	φ12.5	φ 16	∮18	φ 22	φ12.5	φ 16	φ 18	ф 22
10	100						12.5 × 20 100			
22	220	10×20 120					12.5 × 31.5 145	<u>016 × 20</u> 145		
33	330	10 × 25 160	<u>012.5 × 20</u> 160				12.5 × 40 195	<u>016 × 25</u> 195	* 18 × 20 195	
47	470	10 × 31.5 195	<u>012.5 × 20</u> 195					16×35.5 280	_ <u>018 × 25</u> 280	
56	560		_12.5 × 25 210					16×35.5 320	_ <u>018 × 31.5</u> _ 320	<u>* 22 × 20</u> 280
68	680		12.5 × 25 250					1 <u>6×40</u> 350	_ <u>018 × 35.5</u> _ 350	* 22 × 25 320
82	820		12.5 × 31.5 285	_ <u>016 × 20</u> 285					1 <u>8×40</u>	
100	101		12.5 × 35.5 335	<u>∘16 × 25</u> 335	* 18 × 20 335					
150	151			<u>16 × 31.5</u> _ 435	<u>018 × 25</u> 435	* 22 × 20 435				
180	181			16×35.5 495	018 × 31.5_ 495	* 22 × 25 495				
220	221				18 × 35.5 575					Case size DxL (mm) Rated ripple

Frequency coefficient of rated ripple current

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

Rated Ripple (mArms) at 105°C 120Hz

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

Please refer to page 21, 22, 23 about the formed or taped product spec. Please refer to page 3 for the minimum order quantity.