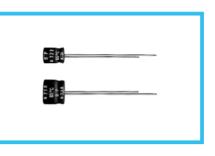
# ALUMINUM ELECTROLYTIC CAPACITORS



Bi-polarized series with 5mm height.
Compliant to the RoHS directive (2011/65/EU).





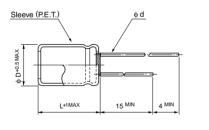
#### Specifications

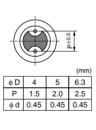
Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 47µF										
Rated Capacitance Tolerance	±20% at 120Hz, 20	)°C									
Leakage Current	After 2 minutes' ap	plication of rat	ted volta	ige, leaka	ige current	s not more	than 0.050	CV or 10 (	IA), whiche	ver is greater.	
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	6.3	1(	0	16	25	3	5	50		
	tan δ (MAX.)	0.24	0.2	20	0.17	0.17	0.1	15	0.15		
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated v	Rated voltage (V)		6.3	10	16	25	35	50		
	Impedance ratio	Z–25°C / Z+	+20°C	4	3	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z+	⊦20°C	8	6	4	4	3	cy : 120Hz at 20°C 50 0.15 requency : 120Hz 35 50 2 2 3 3 50 2 2 2 3 3 50 2 2 2 3 3 50 2 2 3 3 50 2 2 3 3 50 2 2 3 3 50 2 50 2 50 2 50 2 50 2 50 50 2 50 50 2 50 50 2 50 50 2 50 50 2 50 50 2 50 50 2 50 50 2 50 50 2 50 50 50 50 50 50 50 50 50 50		
	The specifications	listed at right	shall he	met			14/11 1	00/ / /			
Endurance	when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at				Capacitar tan δ	ce change	Within $\pm 20\%$ of the initial capacitance value				
						urrent	200% or less than the initial specified value Less than or equal to the initial specified value				
	85°C with the polar	Leakage current Less than or e				o the initial sp					
Shelf Life	After storing the ca clause 4.1 at 20°C,									based on JIS C 5101-4	
Marking	Printed with white of	color letter on	black sl	eeve.							
-											

MP

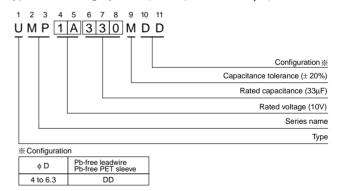
Bi-polarized MA

## Radial Lead Type





### Type numbering system (Example : $10V 33\mu F$ )



#### Dimensions

	V	6.3		10		16		25		35		50	
Cap.(µF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1						_					4×5	1.0
0.22	R22		— —		i						i	4×5	2.0
0.33	R33				-		_					4×5	2.8
0.47	R47				i							4×5	4.0
1	010											4×5	8.4
2.2	2R2				-					4×5	8.4	5×5	13
3.3	3R3							5×5	12	5×5	16	5×5	17
4.7	4R7					4×5	12	5×5	16	5×5	18	6.3×5	20
10	100			4×5	17	5×5	23	6.3×5	27	6.3×5	29		
22	220	5×5	28	6.3×5	33	6.3×5	37						
33	330	6.3×5	37	6.3×5	41	6.3×5	49					Case size	Rated
47	470	6.3×5	45				_					φD×L (mm)	ripple

Rated ripple current (mArms) at 85°C 120Hz

# • Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

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

