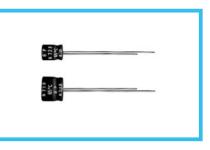
# ALUMINUM ELECTROLYTIC CAPACITORS



Bi-polarized series with 5mm height.
Compliant to the RoHS directive (2002/95/EC).





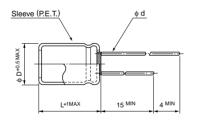
#### Specifications

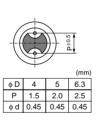
Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	6.3 to 50V									
Rated Capacitance Range	0.1 to 47µF									
Rated Capacitance Tolerance	±20% at 120Hz, 2	0°C								
Leakage Current	After 2 minutes' ap	plication of ra	ted volta	ige, leaka	ge current	s not more	than 0.050	CV or 10 (	µA), whiche	ver is greater.
Measurement frequency : 120Hz, Temperature : 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.	15	0.15	]
Stability at Low Temperature	Measurement frequency : 120Hz									
	Rated	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	35         50           2         2	]
	The specifications	listed at right	shall he	met						
Endurance	when the capacitor		ice change	Within ±20% of the initial capacitance value						
	the rated voltage is	tan δ		200% or less than the initial specified value						
85°C with the polarity inverted every 250 hours.							Decified value			
Shelf Life	After storing the ca clause 4.1 at 20°C									based on JIS C 5101-
Marking	Printed with white color letter on black sleeve.									

MP

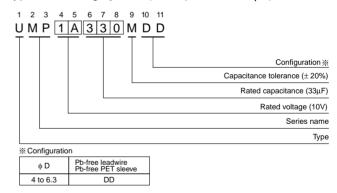
Bi-polarized MA

## Radial Lead Type





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



## Dimensions

	V	6.3		10		16		25		35		50	
Cap.(µF)	Code	OJ		1A		1C		1E		1V		1H	
0.1	0R1											4×5	1.0
0.22	R22						-				_	4×5	2.0
0.33	R33											4×5	2.8
0.47	R47											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.

