

5mmL, Bi-Polarized



- •Bi-polarized series with 5mm height.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

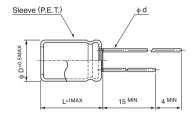


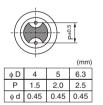


■Specifications

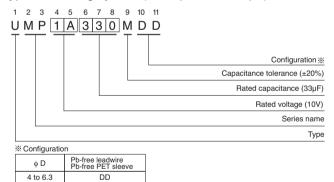
Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 47μF										
Rated Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.05CV or 10 (μA), whichever is greater.										
Tangent of loss angle (tan δ)	Measurement frequency: 120Hz at 20°C										
	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		
	Measurement frequency: 120Hz										
Otability at Law Tanasantons	Rated voltage (V)		6.3	10	16	25	35	50			
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C		4	3	2	2	2	2		
	(MAX.)	Z-40°C / Z-	-20°C	8	6	4	4	3	3		
	The specifications listed at right shall be met Capacitance change Within ± 20% o							20% of the	f the initial capacitance value		
Endurance	when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C with the polarity inverted every 250 hours.				tan δ		200% or less than the initial specified value				
					Leakage	eakage current Less than or equal to the initial specified value				ļ	
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
Marking	Printed with white color letter on black sleeve.										

■Radial Lead Type





Type numbering system (Example : 10V 33µF)



• Frequency coefficient of rated ripple current

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



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes	Rated Ripple (mArms) (85°C/120Hz)	Part Number
	22	5×5	0.24	10	28	UMP0J220MDD
6.3 (0J)	33	6.3×5	0.24	10.395	37	UMP0J330MDD
(32)	47	6.3×5	0.24	14.805	45	UMP0J470MDD
	10	4×5	0.20	10	17	UMP1A100MDD
10 (1A)	22	6.3×5	0.20	11	33	UMP1A220MDD
(, , ,	33	6.3×5	0.20	16.5	41	UMP1A330MDD
	4.7	4×5	0.17	10	12	UMP1C4R7MDD
16	10	5×5	0.17	10	23	UMP1C100MDD
(1C)	22	6.3×5	0.17	17.6	37	UMP1C220MDD
	33	6.3×5	0.17	26.4	49	UMP1C330MDD
	3.3	5×5	0.17	10	12	UMP1E3R3MDD
25 (1E)	4.7	5×5	0.17	10	16	UMP1E4R7MDD
\ \ -,	10	6.3×5	0.17	12.5	27	UMP1E100MDD
	2.2	4×5	0.15	10	8.4	UMP1V2R2MDD
35	3.3	5×5	0.15	10	16	UMP1V3R3MDD
(1V)	4.7	5×5	0.15	10	18	UMP1V4R7MDD
	10	6.3×5	0.15	17.5	29	UMP1V100MDD
	0.1	4×5	0.15	10	1.0	UMP1H0R1MDD
	0.22	4×5	0.15	10	2.0	UMP1HR22MDD
	0.33	4×5	0.15	10	2.8	UMP1HR33MDD
50	0.47	4×5	0.15	10	4.0	UMP1HR47MDD
(1H)	1	4×5	0.15	10	8.4	UMP1H010MDD
	2.2	5×5	0.15	10	13	UMP1H2R2MDD
	3.3	5×5	0.15	10	17	UMP1H3R3MDD
	4.7	6.3×5	0.15	11.75	20	UMP1H4R7MDD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit). If there is no size code in the part number, please add size code "1" and then add the appropriate code.

Please refer to page 18, 19 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.