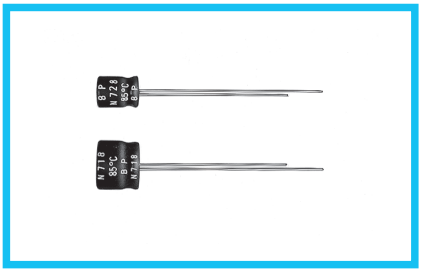
nichicon

UMP

5mmL, Bi-Polarized

Bi-polarized　Anti-Solvent Feature

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

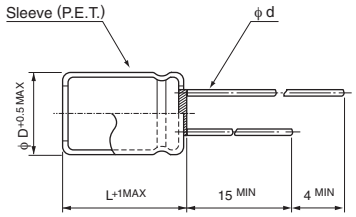


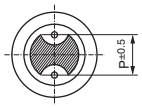
UMP ← Bi-polarized UMA

■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 / 10 / 16 / 25 / 35 / 50 tan δ (MAX.): 0.24 / 0.20 / 0.17 / 0.17 / 0.15 / 0.15
Stability at Low Temperature	Measurement frequency : 120Hz Rated voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 Impedance ratio ZT / Z20 (MAX.) Z−25°C / Z+20°C: 4 / 3 / 2 / 2 / 2 / 2 Impedance ratio ZT / Z20 (MAX.) Z−40°C / Z+20°C: 8 / 6 / 4 / 4 / 3 / 3
Endurance	The specifications listed at right shall be met 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. Capacitance change: Within ±20% of the initial capacitance value tan δ: 200% or less than the initial specified value Leakage current: Less than or equal to the initial specified value
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





(mm)

φ D	4	5	6.3
P	1.5	2.0	2.5
φ d	0.45	0.45	0.45

Type numbering system (Example : 10V 33μF)

1	2	3	4	5	6	7	8	9	10	11
U	M	P	1	A	3	3	0	M	D	D

Configuration ※
Capacitance tolerance (±20%)
Rated capacitance (33μF)
Rated voltage (10V)
Series name
Type

※Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
4 to 6.3	DD

■Dimensions

Cap.(μF) \ V	6.3		10		16		25		35		50	
Code	0J		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	6.3×5	33	6.3×5	37						
33	330	6.3×5	6.3×5	41	6.3×5	49					Case size φD×L (mm)	Rated ripple
47	470	6.3×5										

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

UMP0J470MDD UMP1A100MDD UMP1E3R3MDD UMP1E4R7MDD UMP1HR47MDD UMP1V100MDD UMP0J220MDD UMP0J330MDD UMP1C4R7MDD UMP1E100MDD UMP1C220MDD UMP1C330MDD UMP1H3R3MDD UMP1H4R7MDD UMP1A220MDD UMP1A330MDD UMP1C100MDD UMP1H010MDD UMP1H0R1MDD UMP1H2R2MDD UMP1V2R2MDD UMP1V3R3MDD UMP1HR22MDD UMP1HR33MDD UMP1V4R7MDD UMP0J220MDD1TP UMP0J470MDD1TP UMP1E100MDD1TP UMP1H010MDD1TP UMP1H4R7MDD1TP UMP1C220MDD1TP UMP1A330MDD1TP UMP1C330MDD1TP UMP1H3R3MDD1TP UMP1V4R7MDD1TP UMP1E3R3MDD1TP UMP1H2R2MDD1TP UMP1E4R7MDD1TP UMP1V100MDD1TP UMP1A220MDD1TP UMP1A100MDD1TP UMP1HR47MDD1TP UMP1C4R7MDD1TP UMP1HR22MDD1TP UMP1V3R3MDD1TP UMP1C100MDD1TP UMP1V2R2MDD1TP UMP1HR33MDD1TP UMP1H0R1MDD1TP UMP0J330MDD1TP