nichicon

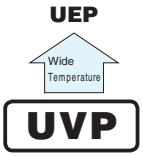
UVP

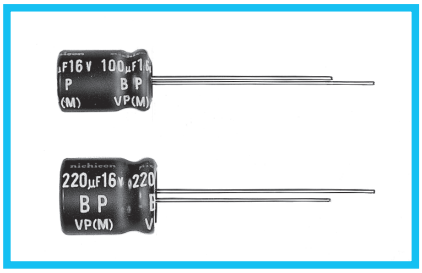
Bi-Polarized

BP Bi-polarized

Anti-Solvent Feature

- Standard bi-polarized series for entertainment electronics.
- 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 100V
Rated Capacitance Range	1 to 6800μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 5 minutes' application of rated voltage at 20°C, leakage current is not more than 0.03CV or 3 (μA), whichever is greater.
Tangent of loss angle (tan δ)	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz at 20°C

Rated voltage (V)	6.3	10	16	25	35	50	63	100
tan δ (MAX.)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10

Stability at Low Temperature — Measurement frequency : 120Hz

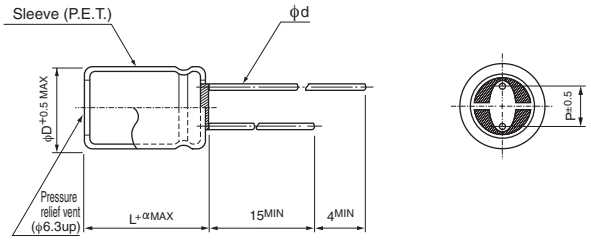
Rated voltage (V)		6.3	10	16	25	35	50	63	100
Impedance ratio ZT / Z20 (MAX.)	Z−25°C / Z+20°C	4	3	2	2	2	2	2	2
	Z−40°C / Z+20°C	10	8	6	5	4	4	3	3

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



α	(L < 20) 1.5
	(L ≧ 20) 2.0

(mm)

φD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8

• Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 10V 47μF)

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

- 11: Configuration ※
- 9–10: Capacitance tolerance (±20%)
- 6–8: Rated capacitance (47μF)
- 4–5: Rated voltage (10V)
- 3: Series name
- 1–2: Type

※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD

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

●Dimension table in next page.

UVP

■Dimensions

Cap. (μF) \ V / Code	6.3		10		16		25		35		50		63		100	
	0J		1A		1C		1E		1V		1H		1J		2A	
1	010										5×11	17			5×11	21
2.2	2R2										5×11	25			6.3×11	34
3.3	3R3										5×11	27	5×11	28	6.3×11	39
4.7	4R7								5×11	34	5×11	34	6.3×11	34	6.3×11	47
10	100				5×11	42	5×11	42	5×11	43	6.3×11	52	6.3×11	57	8×11.5	71
22	220		5×11	57	5×11	57	6.3×11	65	6.3×11	73	8×11.5	89	8×11.5	95	10×16	135
33	330	5×11	64	5×11	64	5×11	70	6.3×11	80	8×11.5	100	8×11.5	105	10×12.5	135	12.5×20	220
47	470	5×11	76	5×11	76	6.3×11	95	6.3×11	95	8×11.5	120	10×12.5	150	10×16	180	12.5×20	240
100	101	6.3×11	125	6.3×11	125	8×11.5	160	8×11.5	160	10×16	230	10×20	265	12.5×20	320	16×25	425
220	221	8×11.5	215	8×11.5	215	10×12.5	275	10×16	305	12.5×20	410	12.5×25	480	16×25	575	18×35.5	720
330	331	8×11.5	265	10×16	345	10×16	375	12.5×20	450	12.5×20	505	16×25	650	16×31.5	655		
470	471	10×12.5	370	10×16	410	10×20	485	12.5×20	540	12.5×25	655	16×31.5	835	18×35.5	965		
1000	102	10×20	650	12.5×20	720	12.5×25	855	16×25	950	16×31.5	1140						
2200	222	12.5×25	1160	16×25	1280	16×31.5	1510	18×35.5	1620								
3300	332	16×25	1570	16×31.5	1690	18×35.5	1980										
4700	472	16×31.5	2020	18×35.5	2160										Case size φD×L (mm)	Rated ripple
6800	682	18×35.5	2600													

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

● Frequency coefficient of rated ripple current

Cap.(μF) \ Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
1 to 47	0.75	1.00	1.35	1.57	2.00
100 to 470	0.80	1.00	1.23	1.34	1.50
1000 to 6800	0.85	1.00	1.10	1.13	1.15

Mouser Electronics

Authorized Distributor

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Nichicon:

UVP0J102MPD UVP0J221MPD UVP0J222MHD UVP0J330MDD UVP0J331MPD UVP0J332MHD UVP0J470MDD UVP1A222MHD UVP1A330MDD UVP1A331MPD UVP1A332MHD UVP1C332MHD UVP1C470MED UVP1C471MPD UVP1E100MDD UVP1H101MPD UVP1H220MPD UVP1H221MHD UVP1J221MHD UVP1J330MPD UVP1J331MHD UVP1J3R3MDD UVP0J101MED UVP1A102MHD UVP1A220MDD UVP1A221MPD UVP1C221MPD UVP1C222MHD UVP1C330MDD UVP1C331MPD UVP1E470MED UVP1E471MHD UVP1H010MDD UVP1H100MED UVP0J471MPD UVP0J472MHD UVP0J682MHD UVP1A101MED UVP1C101MPD UVP1C102MHD UVP1C220MDD UVP1E222MHD UVP1E330MED UVP1E331MHD UVP1H470MPD UVP1H471MHD UVP1H4R7MDD UVP1HR47MDD UVP1A470MDD UVP1A471MPD UVP1A472MHD UVP1C100MDD UVP1E101MPD UVP1E102MHD UVP1E220MED UVP1E221MPD UVP1H2R2MDD UVP1H330MPD UVP1H331MHD UVP1H3R3MDD UVP1J470MPD UVP1J471MHD UVP1J4R7MED UVP1V100MDD UVP1V471MHD UVP1V4R7MDD UVP2A010MDD UVP1J100MED UVP1J101MHD UVP1J220MPD UVP1V221MHD UVP1V330MPD UVP1V331MHD UVP1V470MPD UVP2A4R7MED UVP2AR47MDD UVP1V101MPD UVP1V102MHD UVP1V220MED UVP2A330MHD UVP2A3R3MED UVP2A470MHD UVP2A100MPD UVP2A101MHD UVP2A220MPD UVP2A221MHD UVP2A2R2MED UVP1C331MPD1TD UVP1E100MDD1TA UVP1H010MDD1TA UVP1H330MPD1TD UVP1H470MPD1TD UVP2A100MPD1TD UVP1E221MPD1TD UVP1E4R7MDD UVP1C471MPD1AA UVP1H220MPD1TA UVP2A4R7MED1TD UVP1J220MPD1TD UVP1J220MPD1TA