

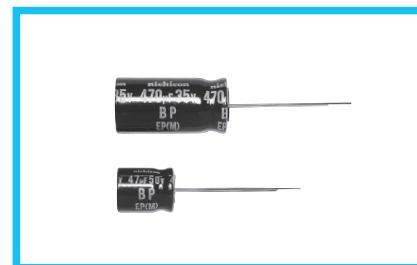
UEP

Bi-Polarized, Wide Temperature Range



- Bi-polarized series for operations over wide temperature range of -55°C to +105°C.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).

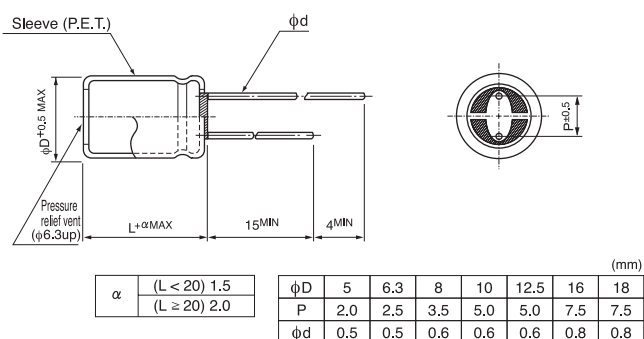
UEP



Specifications

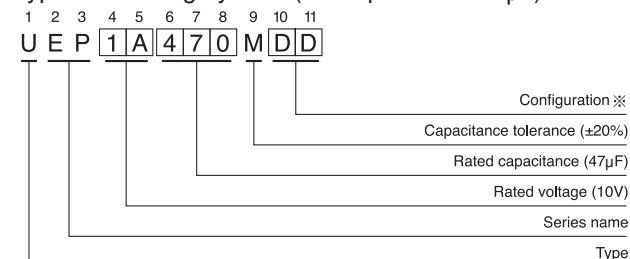
Item	Performance Characteristics									
Category Temperature Range	-55 to +105°C									
Rated Voltage Range	6.3 to 100V									
Rated Capacitance Range	1 to 6800μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 5 minutes' application of rated voltage at 20°C, leakage current is not more than 0.03CV or 3 (μA), whichever is greater.									
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C									
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	
	tan δ (MAX.)	0.24	0.24	0.20	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 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
		Z-40°C / Z+20°C	10	8	6	4	3	3	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 1000 hours at 105°C with the polarity inverted every 250 hours.					Capacitance change		Within ±25% of the initial capacitance value (6.3to16V)		Within ±20% of the initial capacitance value (25to100V)
						tan δ		150% 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 105°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



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

Type numbering system (Example : 10V 47µF)



※ Configuration

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

Dimensions

Cap. (µF)	V	6.3	10	16	25	35	50	63	100
Code	Code	0J	1A	1C	1E	1V	1H	1J	2A
1	010						5 × 11	12	5 × 11
2.2	2R2						5 × 11	18	6.3 × 11
3.3	3R3						5 × 11	22	6.3 × 11
4.7	4R7						5 × 11	25	6.3 × 11
10	100			5 × 11	30	5 × 11	30	6.3 × 11	50
22	220		5 × 11	42	5 × 11	40	6.3 × 11	55	6.3 × 11
33	330	5 × 11	46	5 × 11	45	5 × 11	49	6.3 × 11	56
47	470	5 × 11	54	5 × 11	54	6.3 × 11	67	6.3 × 11	67
100	101	6.3 × 11	90	6.3 × 11	90	8 × 11.5	110	8 × 11.5	110
220	221	8 × 11.5	150	8 × 11.5	150	10 × 12.5	195	10 × 16	215
330	331	8 × 11.5	185	10 × 16	240	10 × 16	265	12.5 × 20	320
470	471	10 × 12.5	260	10 × 16	290	10 × 20	345	12.5 × 20	380
1000	102	10 × 20	460	12.5 × 20	510	12.5 × 25	605	16 × 25	670
2200	222	12.5 × 25	820	16 × 25	910	16 × 31.5	1070	18 × 35.5	1140
3300	332	16 × 25	1110	16 × 31.5	1200	18 × 35.5	1400		
4700	472	16 × 31.5	1430	18 × 35.5	1520				
6800	682	18 × 35.5	1830						

Frequency coefficient of rated ripple current

Cap. (µF)	Frequency	50 Hz	120Hz	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

Rated ripple current (mA rms) at 105°C 120Hz

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