

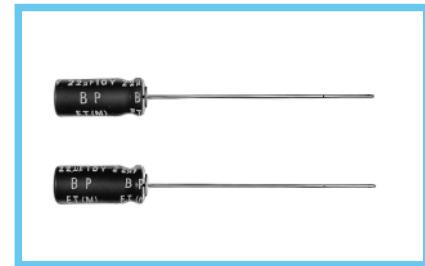
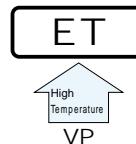
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

ET Bi-Polarized, Wide Temperature Range
series



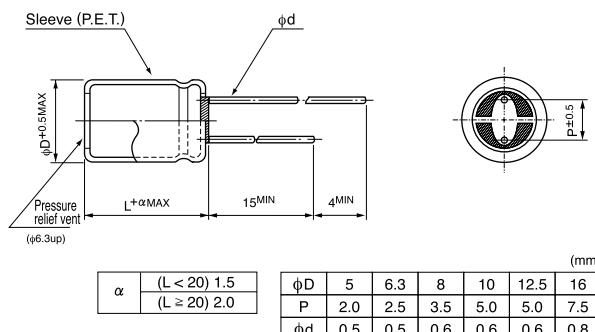
- Bi-polarized series for operations over wide temperature range of $-55 \sim +105^{\circ}\text{C}$.
- Adapted to the RoHS directive (2002/95/EC).



■ Specifications

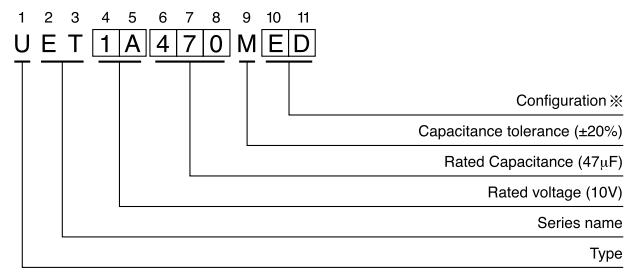
Item	Performance Characteristics									
Category Temperature Range	$-55 \sim +105^{\circ}\text{C}$									
Rated Voltage Range	6.3 ~ 100V									
Rated Capacitance Range	0.47 ~ 1000 μF									
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C									
Leakage Current	After 5 minutes' application of rated voltage, leakage current is not more than 0.03CV or 3 (μA), whichever is greater.									
tan δ	Measurement frequency : 120Hz, Temperature : 20°C									
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	
Stability at Low Temperature	tan δ (MAX.)	0.24	0.20	0.16	0.16	0.14	0.12	0.10	0.09	
	Measurement frequency : 120Hz									
Endurance	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	Impedance ratio Z-25°C / Z+20°C	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
Shelf Life	ZT / Z20 (MAX.)		Z-40°C / Z+20°C	8	6	4	4	3	3	3
	After 1000 hours' application of rated voltage at 105°C with the polarity inverted every 250 hours, capacitors meet the characteristic requirement listed at right.									
Marking	Capacitance change Within $\pm 20\%$ of initial value									
	tan δ 200% or less of initial specified value									
	Leakage current Initial specified value or less									

■ Radial Lead Type



• Please refer to page 21 about the end seal configuration.

Type numbering system (Example : 10V 47 μF)



※ Configuration	φ D	Pb-free leadwire Pb-free PET sleeve
5		DD
6.3		ED
8 · 10		PD
12.5 · 16		HD

■ Dimensions

V	6.3	10	16	25	35	50	63	100
Cap. (μF)	Code	0J	1A	1C	1E	1V	1H	1J
0.47	R47							
1	010							
2.2	2R2							
3.3	3R3							
4.7	4R7							
10	100							
22	220							
33	330	5×11	46	6.3×11	57	6.3×11	63	8×11.5
47	470	6.3×11	61	6.3×11	67	8×11.5	89	10×12.5
100	101	8×11.5	104	10×12.5	125	10×12.5	139	10×16
220	221	10×12.5	168	10×16	204	10×20	279	12.5×25
330	331	10×16	229	10×20	275	12.5×20	346	12.5×25
470	471	10×20	300	12.5×20	371	12.5×25	460	16×25
1000	102	12.5×25	550	16×25	668	16×25	746	16×31.5
								Case size $\phi D \times L$ (mm)
								Rated ripple
								$\phi D \times L$ (mm)

Rated Ripple (mA rms) at $105^{\circ}\text{C} 120\text{Hz}$

● Frequency coefficient of rated ripple current

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

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

CAT.8100V

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