mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



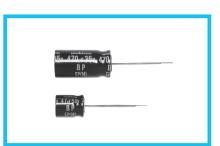
Bi-Polarized, Wide Temperature Range



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

Values marked with an % in the dimension table are scheduled to be discontinued and are not recommended for new designs.

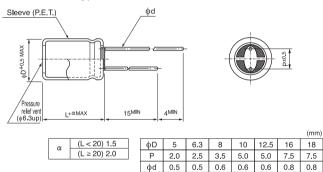




Specifications

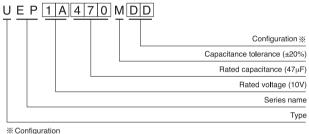
Item	Performance Characteristics												
Category Temperature Range	-55 to +105°C	-55 to +105°C											
Rated Voltage Range	6.3 to 100V	.3 to 100V											
Rated Capacitance Range	0.47 to 6800μF ±20% at 120Hz, 20°C After 5 minutes' application of rated voltage at 20°C, leakage current is not more than 0.03CV or 3 (μA), whichever is greater.												
Capacitance Tolerance													
Leakage Current											hichever is greater.		
	Measurement frequency : 120Hz, Temperature : 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25	;	35	50		63	100		
	tan δ (MAX.)	0.24	0.24	0.20	0.2	0	0.16	0.14	(.12	0.10		
	Measurement frequency : 120Hz												
	Rated voltage (V)			6.3	10	16	25	35	50	63	100		
Stability at Low Temperature	Impedance ratio	Z–25°C	/ Z+20°C	4	3	2	2	2	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C	/ Z+20°C	10	8	6	4	3	3	3	3		
E. I	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is						Capacitance change			Within ±25% of the initial capacitance value (6.3to16V) Within ±20% of the initial capacitance value (25to100V)			
Endurance	applied for 1000 hours at 105°C with the polarity inverted tan δ 150% or less than the initial specified value											nitial specified value	
	every 250 hours. Leakage current Less than or equal to the initial specified value										e 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 5 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.								based on JIS C 5101-4				
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 47μ F) 1 2 3 4 5 6 7 8 9 10 11



~ oomiguration								
φD	Pb-free leadwire Pb-free PET sleeve							
5	DD							
6.3	ED							
8 · 10	PD							
12.5 to 18	HD							

Dimensions

\sim	V	6.3		10		16		25		35		50		63		100	
Cap. (µF)	Code	0J		1A		1C		1E		1V		1H		1J		2A	
0.47	R47			1		1				1		*5×11	8			*5×11	10
1	010											5×11	12			5×11	15
2.2	2R2											5×11	18			6.3×11	20
3.3	3R3											5×11	22	5×11	20	6.3 × 11	25
4.7	4R7									5×11	25	5×11	22	6.3 × 11	31	6.3×11	30
10	100					5×11	30	5×11	34	5×11	30	6.3×11	37	6.3 × 11	40	8×11.5	50
22	220			5×11	42	5×11	40	6.3×11	55	6.3×11	51	8×11.5	63	8×11.5	68	10×16	97
33	330	5×11	46	5×11	45	5×11	49	6.3×11	56	8 × 11.5 ¦	72	8×11.5	77	10 × 12.5	98	12.5 × 20	140
47	470	5×11	54	5×11	54	6.3×11	67	6.3 × 11	67	8×11.5	86	10 × 12.5	105	10 × 16	130	12.5 × 20	170
100	101	6.3×11	90	6.3×11	90	8×11.5	110	8×11.5	110	10×16	160	10×20	190	12.5×20	225	16×25	300
220	221	8×11.5	150	8×11.5	150	10 × 12.5	195	10×16	215	12.5 × 20	290	12.5×25	340	16×25	405	18 × 35.5	510
330	331	8×11.5	185	10×16	240	10×16	265	12.5 × 20	320	12.5 × 20	350	16×25	460	16 × 31.5	535		
470	471	10 × 12.5	260	10×16	290	10×20	345	12.5 × 20	380	12.5 × 25	465	16×31.5	590	18 × 35.5	680		
1000	102	10×20	460	12.5×20	510	12.5×25	605	16×25	670	16×31.5	805						
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											Case size	Rated
6800	682	18 × 35.5	1830													¢D×L (mm)	

(mm)

7.5

• Frequency coefficient of rated ripple current

Cap.(µF) Frequency	50 Hz	120Hz	300 Hz	1 kHz	10 kHz or more	
0.47 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	193

Rated ripple current (mArms) 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.

CAT.8100F