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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!



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ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



Bi-Polarized



- Standard bi-polarized series for entertainment electronics.
- 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	-40 to +85°C												
Rated Voltage Range	6.3 to 100V												
Rated Capacitance Range	0.47 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.												
	For capacitance of	more than	1000µF, ad	d 0.02 for	every i	ncrease	of 1000µ	F. Me	asuremer	nt frequ	ency : 120)Hz at 20°C	
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10		16	2	25	35	50	6	i3	100	-		
	tan δ (MAX.)	0.26	0.24	0.22	0.	.20	0.16	0.14	l 0.	12	0.10]	
	Measurement frequency : 120Hz												
Stability at Low Tomporature	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	5	4	4	3	3		
	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.						acitance c	hange	Within ±20% of the initial capacitance value				
Endurance									200% or less than the initial specified value				
							age curre	nt	Less than or equal to the initial specified value				
	After storing the consister under no load at 95°C for 1000 hours and then performing voltage treatment based on US C 5101.4												
Shelf Life	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.

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

Type numbering system (Example : 10V 47µF)



UVP

Dimensions

\frown	V	6.3		10		16		25		35		50		63		100	
Сар. (µF)	Code	0J		1A		1C		1E		1V		1H		1J		2A	
0.47	R47											%5×11	11			*5×11	14
1	010										1	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						1					Case size	Rated
6800	682	18 × 35.5	2600								1					φD×L (mm)	ripple

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
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