

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

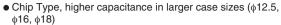
UUJ

Chip Type, Higher Capacitance Range









- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape and tray.
- Compliant to the RoHS directive (2011/65/EU).



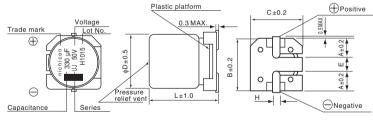


■Specifications

Item		Performance Characteristics													
Category Temperature Range	-55 to +105°C (6.3 t	55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 450V)													
Rated Voltage Range	6.3 to 450V														
Rated Capacitance Range	3.3 to 6800µF														
Capacitance Tolerance	±20% at 120Hz, 20°0	· · · · · · · · · · · · · · · · · · ·													
	Rated voltage	(V)				6	6.3	to 100					160 to 45	0	
Leakage Current	_							voltage at 2 ever is great		age curre	ent is not	I = 0.04CV+100 (μA) max. (1 minute's at 20°C)			
	Measurement frequency : 120Hz at 20°C														
Tangent of less angle (tan \$)	Rated voltage (V)	6.3	10	0	16	25		35	50	6	33	100		400 • 450	
Tangent of loss angle (tan δ)	tan δ (MAX.)	0.26	0.22		0.18	0.16	i	0.14	0.12	0.	10	0.08	0.15	0.20	
	For capacitance of more than $1000\mu F$, add 0.02 for every increase of $1000\mu F$.														
	Measurement frequency: 120Hz														
Stability at Low Temperature	Rated volta			6.3	10	16		25	35	50	63	100		400 • 450	
Stability at Low Temperature	Impedance ratio 2-23 C7 24			5	4	3		2	2	2	2	2	3	6	
	ZT / Z20 (MAX.) Z	Z-40°C / Z+2	20°C	10	8	6		4	3	3	3	3	6	10	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.							tan δ 200% or less th				the initial capacitance value nan the initial specified value ual to the initial specified value			
	app	100 0						Janago our		L035 III	an or equ	ai to tile ii	iiliai specillet	value	
Shelf Life	After storing the capa clause 4.1 at 20°C, the												ed on JIS C	5101-4	
Marking	Black print on the case to	op.													

■Chip Type

Type numbering system (Example : $50V 330\mu F$)



1 2	3 4	5 6	7 8 9	9 10	11 1	2 13 14	_		
UU	J 1	H 3 3	3 1 N	ΛN	Q 1	MS			
T				Г —	\Box		-	Pack	age code
								Taping	MS
								Tray	ZD
					l		Size code	Con	figuration
							Capacita	nce Toleranc	e (±20%)
							Rated	d capacitance	(330µF)
								Rated volta	ige (50V)
								Ser	ies name
									Туре

(mm)

φD	12.5×13.5	12.5×16	12.5×21	16×16.5	16×21.5	18×16.5	18×21.5
Α	4.8	4.8	4.8	5.4	5.4	6.4	6.4
В	13.6	13.6	13.6	17.1	17.1	19.1	19.1
С	13.6	13.6	13.6	17.1	17.1	19.1	19.1
Е	4.0	4.0	4.0	6.3	6.3	6.3	6.3
L	13.5	16.0	21.0	16.5	21.5	16.5	21.5
Н	1.0 to 1.4						

* The vibration structure-resistant product is also available upon request, please ask for details.



Dimensions

(μF)	V	6.3		6.3 10		16 25				35		50	
Cap. Code		0J		1A		1C		1E		1V		1H	
220	221]] 	12.5 × 13.5	280	12.5 × 16	320
330	331		1				!	12.5 × 13.5	320	12.5 × 16	360	● 16 × 16.5	440
470	471					12.5 × 13.5	360	12.5 × 16	400	• 16 × 16.5	490	△ 18 × 16.5	550
1000	102	12.5 × 13.5	440	12.5 × 16	500	• 16 × 16.5	630	△ 18 × 16.5	700	△ 18 × 16.5	750	18 × 21.5	820
2200	222	• 16 × 16.5	750	• 16 × 16.5	810	△ 18 × 16.5	930	18 × 21.5	1050	□ 18 × 21.5	1150		
3300	332	△ 18 × 16.5	930	△ 18 × 16.5	1000	18 × 21.5	1150						
4700	472	18 × 21.5	1100	18 × 21.5	1200		i		l I				
6800	682	□ 18 × 21.5	1350	□ 18 × 21.5	1450		 						

(µF)	V	63		100		160		200		250		400		450	
	Code	1J		2A		2C		2D		2E		2G		2W	
3.3	3R3		 											12.5 × 13.5	40
4.7	4R7		l I							12.5 × 13.5	65	12.5 × 16	50	12.5 × 16	50
10	100		i I		i		i	12.5 × 13.5	80	12.5 × 16	105	16 × 16.5	85	16 × 16.5	85
22	220		l I		1		 	12.5 × 16	105	• 16 × 16.5	180	18 × 21.5	130	18 × 21.5	130
33	330		 			12.5 × 13.5	95	• 16 × 16.5	220	△ 18 × 16.5	230	□ 18 × 21.5	160	□ 18 × 21.5	160
47	470			12.5 × 13.5	160	• 16 × 16.5	260	△ 18 × 16.5	270	18 × 21.5	280				
68	680	12.5 × 13.5	175	12.5 × 16	205	△ 18 × 16.5	320	18 × 21.5	330	□ 18 × 21.5	340				
100	101	12.5 × 16	225	• 16 × 16.5	285	16 × 21.5	380	□ 18 × 21.5	410						
220	221	● 16 × 16.5	385	△ 18 × 16.5	440		İ								
330	331	△ 18 × 16.5	490	□ 18 × 21.5	500		i		i					Case size	Rated
470	471	18 × 21.5	590						! !		1			$\phiD\times L\;(mm)$	ripple

Rated ripple current (mArms) at 105°C 120Hz

□: In this case, [6] will be put at 12th digit of type numbering system.

Size φ12.5×21L is available for capacitors marked." • "

Size φ16×21.5L is available for capacitors marked." Δ"

In this case, [6] will be put at 12th digit of type numbering system.

• Frequency coefficient of rated ripple current

	V	Cap.(µF) Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
		47 to 68	0.75	1.00	1.35	1.57	2.00
	6.3 to 100	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
ĺ	160 to 450	3.3 to 100	0.80	1.00	1.25	1.40	1.60

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.