

Kingtronics®

CKT

Chip Tantalum Capacitor - SMD

SOLID ELECTROLYTE, HIGH VOLUMETRIC EFFICIENCY, STABLE ELECTRIC PERFORMANCES

FEATURES

- Molded case available in six case codes
- Compatible with all popular "High Volume" automatic pick and equipment
- Optical character recognition qualified

Capacitance (μ F)	Capacitance Change (%)			DF Max. (%)				DCL Max. (μ A)	
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+85°C	+125°C
≤ 1.0				6	4	6	6		
1.5 ~ 68	± 10	± 10	± 12	10	6	10	10	+10 I _o	+12 I _o
100 ~ 470				14	12	14	14		



SPECIFICATIONS

OPERATING TEMPERATURE	-55°C to +125°C; (>85°C applying derated voltage)
RATED VOLTAGE	4 ~ 50VDC
CAPACITANCE TOLERANCE	K: ($\pm 10\%$), M: ($\pm 20\%$), J: ($\pm 5\%$, for special order) (20°C, 120HZ/100HZ)
LEAKAGE CURRENT	I _o $\leq 0.01C_R V_R$ or 0.5 μ A (whichever is greater) Measured after 5 minutes application of rated voltage
LOAD LIFE	C _R -(μ F) Nominal Capacitance; V _R -(V) Rated Voltage 85°C, After applying rated voltage for 2000 hours at 85°C Capacitance change: within $\pm 10\%$ of the initial value Dissipation factor: Not more than 150% of the specified value Leakage current: Not more than the specified value
TEMPERATURE CHARACTERISTIC	

Case Size, Derated Voltage & Surge Voltage

V _R	V	4	6.3	10	16	20	25	35	50
Voltage Derating (V)		2.5	4	6.3	10	13	16	23	33
Surge Voltage +85°C (V)		5	8	13	20	26	32	46	65
Surge Voltage +125°C (V)		3.4	5.0	9	12	16	20	26	38
C _R		Case Size (standard / miniature / Super miniature)							
μ F									
0.1						P		A	A
0.15						P		A	B/A
0.22						P		A	B
0.33						P		A	B
0.47					P	P	A	B/A	C
0.68				P	P	A/P	A	B/A	C
1.0			A/P	A/P	A/P	A	B/A	B/A	C
1.5	P		A/P	A/P	A/P	B/A	B	C/B	D/C
2.2	P		A/P	A/P	A/P	B/A	B	C/B	D
3.3	A/P		A/P	A/P	B/A	C/B/A	C/B	D/C/B	D
4.7	A/P		A/P	B/A/P	B/A	D/B/A	C/B	D/C	E/D
6.8	A/P		B/A/P	B/A	C/B/A	D/C/B	D/C	D/C	D
10	B/A		B/A	B/A	C/B/A	D/C/B	D/C	D/C	E
15	B/A		B/A	C/B	C/B	D/C	D/C	D/C	E
22	B/A		B/A	C/B	D/C	D/C	D	D	E
33	C/B		C/B	D/C	D/C	D	E/D	E	
47	C/B		C/B	D/C	D/C	D	E/D	E	
68	D/C/B		D/C	D	D	E/D	E		
100	D/C/B		D/C	D/C	D	E			
150	D/C		D	E	E				
220	D		E/D	E/D	E				
330	E		E/D	E					
470	E								

Marking code for case size p

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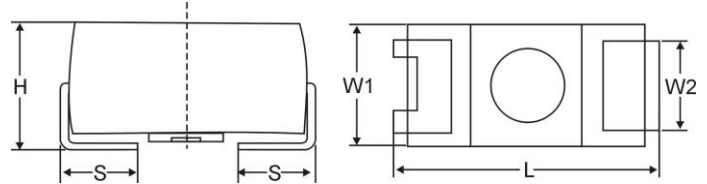
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Diagram of Dimensions (unit: mm)

Case Size	L ±0.4	W1 ±0.4	H ±0.4	S ±0.3	W2	
P	2012	2.0	1.2	1.2	0.5	1.0±0.2
A	3216	3.2	1.6	1.6	0.8	1.2±0.2
B	3528	3.5	2.8	1.9	0.8	2.2±0.2
C	6032	6.0	3.2	2.5	1.3	2.2±0.2
D	7343	7.3	4.3	2.8	1.3	2.4±0.2
E	7343	7.3	4.3	4.1	1.3	2.4±0.5



How To Order

CKT	0R1	M	350	A	T	R
Series	1.	2.	3.	4.	5.	6.

1. Nominal Capacitance

Code	0R1	R22	010	2R2	220	221
Capacitance	0.1uF	0.22uF	1uF	2.2uF	22uF	220uF
Marking	104	224	105	225	226	227

2. Capacitance Tolerance

Code	K	M	J
Tolerance	±10%	±20%	±5%

3. Rated Voltage

Code	040	060	100	160	200	250	350	500
Voltage	4V	6.3V	10V	16V	20V	25V	35V	50V
Marking	G	J	A	C	D	E	V	T

4. Case

Code	A	B	C	D
Case	A	B	C	D

5. Packing

Code	T
Packing	Tape & Reel

6. Pb

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.

Kingtronics® International Company

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