

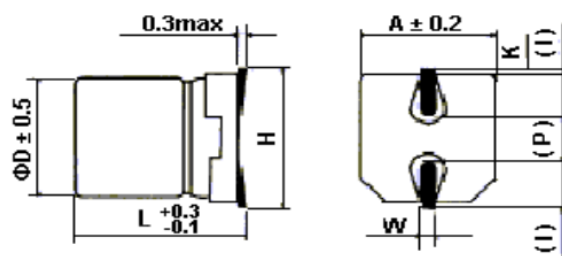
Chip Aluminum Electrolytic Capacitor

Features

- Chip E-capacitor
- Lifetime: 2000 hours at 85°C



Dimensions (in mm)



$\phi 8 \sim \phi 10 \& \phi 6.3 \times 7.7 = L \pm 0.3$

Case Code and Dimension Table

Case Code	ψD	L	A	H (Max.)	I	W	P	K
B	4.0	5.4	4.3	5.5	1.8	0.65 ± 0.1	1.0 ± 0.2	$0.35 \begin{smallmatrix} +0.15 \\ -0.20 \end{smallmatrix}$
C	5.0	5.4	5.3	6.5	2.2	0.65 ± 0.1	1.5 ± 0.2	$0.35 \begin{smallmatrix} +0.15 \\ -0.20 \end{smallmatrix}$
D	6.3	5.4	6.6	7.8	2.6	0.65 ± 0.1	1.8 ± 0.2	$0.35 \begin{smallmatrix} +0.15 \\ -0.20 \end{smallmatrix}$
E	6.3	7.7	6.6	7.8	2.6	0.65 ± 0.1	1.8 ± 0.2	$0.35 \begin{smallmatrix} +0.15 \\ -0.20 \end{smallmatrix}$
F	8.0	6.2	8.3	9.5	3.4	0.65 ± 0.1	2.2 ± 0.2	$0.35 \begin{smallmatrix} +0.15 \\ -0.20 \end{smallmatrix}$
G	8.0	10.2	8.3	10.0	3.4	0.90 ± 0.2	3.1 ± 0.2	0.70 ± 0.2
H	10.0	10.2	10.3	12.0	3.5	0.90 ± 0.2	4.6 ± 0.2	0.70 ± 0.2

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TCE Series

Specification

Description		Value									Conditions
Capacitance Tolerance		±20%									at 120Hz, 20 °C
Rated Voltage Range (WV)		4~100 VDC									
Working Voltage Range (WV)		4	6.3	10	16	25	35	50	63	100	
Surge Voltage (V)		5	8	13	20	32	44	63	79	125	at 20°C
Low Temperature Stability Impedance Ratio at 120Hz		7	4	3	2	2	2	2	2	2	Z(-25°C)/ Z(+20°C)
		15	8	6	4	4	3	3	3	3	Z(-40°C)/ Z(+20°C)
Max. Dissipation Factor tan δ		Shown in the table of standard rating									at 20°C, 120Hz
Operation Temperature Range		-40 ~+85°C									
Max. Leakage current at 20°C		I≤0.01 CV or 3 μA, whichever is greater (C= Nominal Capacitance (μF), V= Rated Voltage (V))									After 2 minutes applied Rated Voltage
Load Life	Capacitance Change	Within±20% of the initial value									After 2000 Hours applied Rated Voltage at 85°C
	Dissipation Factor	Not move than 200% of the specified value									
	Leakage Current	Not more than the specified value									
Shelf Life		Shall meet the same requirement as load life.									After placed at 85°C without voltage applied for 1000 hours

Ripple Current Multiplier

Frequency (Hz)	60	120	1000	10,000
Coefficient	0.80	1.00	1.15	1.25

Case Size (ψD X L in mm) & tan δ & Rated Ripple Current

UR (V) SPEC μF	4 (5)			6.3 (8)			10 (13)			16 (20)		
	ψDxL (mm)	tanδ	RC (mA/rms)	ψDxL (mm)	tan δ	RC (mA/rms)	ψDxL (mm)	tan δ	RC (mA/rms)	ψDxL (mm)	tanδ	RC (mA/rms)
4.7										4x5.4	0.16	20
10										4x5.4	0.16	28
22				4x5.4	0.26	20	4x5.4	0.30	28	4x5.4	0.26	28
										5x5.4	0.16	39
33	4x5.4	0.35	26	4x5.4	0.26	22	4x5.4	0.30	29	5x5.4	0.26	45
							5x5.4	0.20	43	6.3x5.4	0.16	66
47	4x5.4	0.35	34	4x5.4	0.26	36	5x5.4	0.30	43	5x5.4	0.16	45
				5x5.4	0.26	46				6.3x5.4	0.16	70
100	5x5.4	0.35	61	5x5.4	0.26	47	6.3x5.4	0.26	70	6.3x5.4	0.20	70
				6.3x5.4	0.26	71				6.3x7.7	0.20	85
220	6.3x5.4	0.35	82	6.3x5.4	0.35	74	6.3x7.7	0.26	250	6.3x7.7	0.20	162
				6.3x7.7	0.35	235				8x10.2	0.20	280
330	6.3x5.4	0.35	80	6.3x7.7	0.35	280	8x10.2	0.26	330	8x10.2	0.20	320
										10x10.2	0.20	380
470	6.3x7.7	0.35	200	8x10.2	0.35	380	8x10.2	0.26	390	8x10.2	0.20	350
							10x10.2	0.26	400	10x10.2	0.20	420
1000				8x10.2	0.35	500	10x10.2	0.26	580			
				10x10.2	0.35	700						
1500				10x10.2	0.35	750						

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UR (V)	25(32)			35(44)			50(63)		
μF \ SPEC	$\psi D \times L$ (mm)	$\tan \delta$	RC (mA/rms)	$\psi D \times L$ (mm)	$\tan \delta$	RC (mA/rms)	$\psi D \times L$ (mm)	$\tan \delta$	RC (mA/rms)
1							4x5.4	0.12	10
2.2				4x5.4	0.12	8	4x5.4	0.12	16
3.3				4x5.4	0.12	10	4x5.4	0.12	16
4.7	4x5.4	0.14	22	4x5.4	0.12	22	4x5.4	0.14	18
							5x5.4	0.12	23
10	4x5.4	0.20	24	4x5.4	0.16	24	5x5.4	0.14	27
	5x5.4	0.14	28	5x5.4	0.12	30	6.3x5.4	0.12	35
22	5x5.4	0.20	35	5x5.4	0.16	36	6.3x5.4	0.14	40
	6.3x5.4	0.14	55	6.3x5.4	0.12	60	6.3x7.7	0.12	90
33	5x5.4	0.20	42	6.3x5.4	0.16	60	6.3x7.7	0.12	90
	6.3x5.4	0.14	65	6.3x7.7	0.14	130	8x10.2	0.12	120
47	6.3x5.4	0.20	70	6.3x5.4	0.16	70	6.3x7.7	0.12	90
	6.3x7.7	0.16	96	6.3x7.7	0.14	165	8x10.2	0.12	120
100	6.3x7.7	0.16	143	6.3x7.7	0.14	140	8x10.2	0.12	200
	8x10.2	0.16	180	8x10.2	0.14	180	10x10.2	0.12	250
220	8x10.2	0.16	230	8x10.2	0.14	200	10x10.2	0.12	300
	10x10.2	0.16	310	10x10.2	0.14	310			
330	8x10.2	0.16	270	10x10.2	0.14	350			
	10x10.2	0.16	340						
470	10x10.2	0.16	380						

UR (V)	63(79)			100(125)		
μF \ SPEC	$\psi D \times L$ (mm)	$\tan \delta$	RC (mA/rms)	$\psi D \times L$ (mm)	$\tan \delta$	RC (mA/rms)
3.3				6.3x7.7	0.18	50
4.7	6.3x5.4	0.18	20	6.3x7.7	0.18	50
10	6.3x5.4	0.18	20	6.3x7.7	0.18	50
				8x10.2	0.18	55
22	6.3x7.7	0.18	40	8x10.2	0.18	55
	8x10.2	0.18	40	10x10.2	0.18	85
33	8x10.2	0.18	45	10x10.2	0.18	90
47	8x10.2	0.18	45			
100	10x10.2	0.18	60			

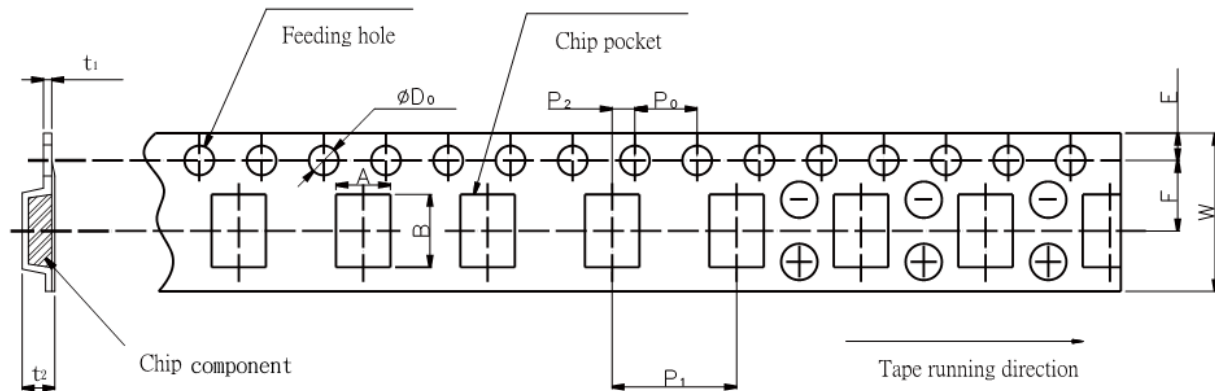
Note: 1. Max Dissipation Factor ($\tan \delta$) at 120Hz, 20°C;
 2. Max Equivalent Series Resistance (ESR) at 120Hz, 20°C;
 3. Max Permissible Ripple Current (RC) at 120Hz, 85°C.

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TCE Series

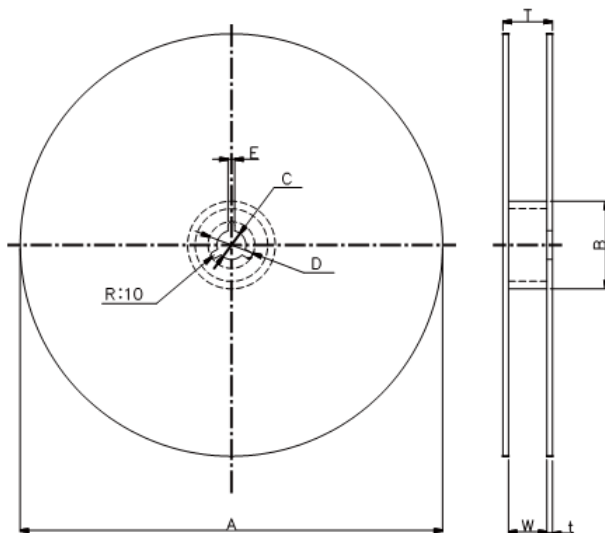
Packing Information:

Carrier Tape Dimensions (in mm)



Symbol Size	A	B	E	F	W	P0±0.1	P1	P2±0.1	ψD0	t1	t2
4x5.4	4.7	4.7	1.75	5.5	12.0	4.0	8.0	2.0	1.5+0.1-0	0.4	5.8
5x5.4	5.7	5.7	1.75	5.5	12.0	4.0	12.0	2.0	1.5+0.1-0	0.4	5.8
6.3x5.4	7.0	7.0	1.75	7.5	16.0	4.0	12.0	2.0	1.5+0.1-0	0.4	5.8
6.3x7.7	7.0	7.0	1.75	7.5	16.0	4.0	12.0	2.0	1.5+0.1-0	0.4	8.3
8x6.2	8.7	8.7	1.75	7.5	16.0	4.0	12.0	2.0	1.5+0.1-0	0.4	6.8
8x10.2	8.7	8.7	1.75	11.5	24.0	4.0	16.0	2.0	1.5+0.1-0	0.4	11.0
10x10.2	10.7	10.7	1.75	11.5	24.0	4.0	16.0	2.0	1.5+0.1-0	0.4	11.0

Reel Dimensions (in mm)



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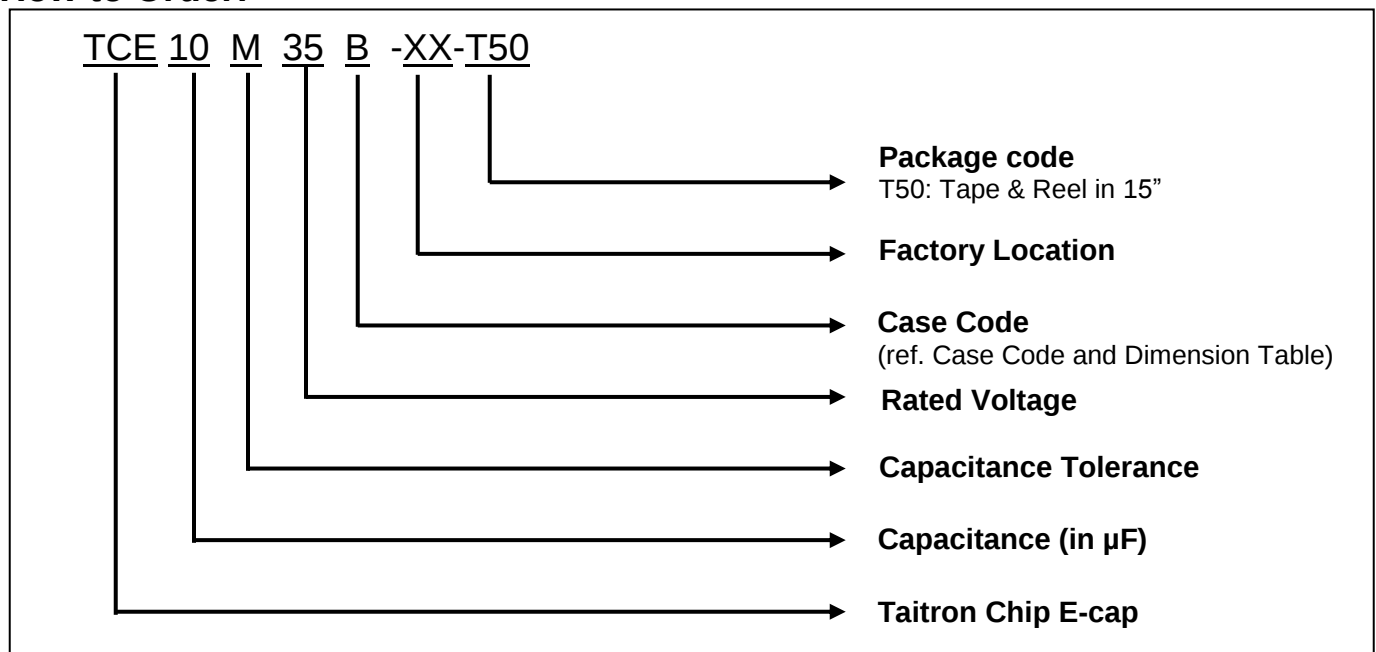
TCE Series

Size	A	B	C	D	E	W	T	t
4 ψ ~ 5 ψ	380 $\pm$ 2	50min	13.0 $\pm$ 0.5	21.0 $\pm$ 0.8	2.0 $\pm$ 0.5	14 $\pm$ 1	20 $\pm$ 1	3.0
6.3 ψ ~ 8 ψ x 6.2	380 $\pm$ 2	50min	13.0 $\pm$ 0.5	21.0 $\pm$ 0.8	2.0 $\pm$ 0.5	18 $\pm$ 1	24 $\pm$ 1	3.0
8 ψ x 10.2 ~ 10 ψ	380 $\pm$ 2	50min	13.0 $\pm$ 0.5	21.0 $\pm$ 0.8	2.0 $\pm$ 0.5	26 $\pm$ 1	32 $\pm$ 1	3.0

Carton Information

Size(mm)	Q'ty per reel	Inner box / measurement (mm)		Out carton / measurement (mm)	
4x5.4	2000	20,000	390x195x395	40,000	420x410x414
5x5.4	1000	10,000	390x195x395	20,000	420x410x414
6.3x5.4 & 6.3x7.7	1000	10,000	390x235x405	20,000	420x410x492
8x6.2	1000	10,000	390x235x405	20,000	420x410x492
8x10.2	500	4,000	390x255x405	8,000	420x410x530
10x10.2	500	4,000	390x255x405	8,000	420x410x530

How to Order:



How to contact us

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN, TAIPEI

6F., No.190, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 23146, Taiwan R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOGY, SHANGHAI CORPORATION

METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027