
Tantalum Capacitor

■ FEATURE AND APPLICATION

● Feature

The product is a standard type that has been most widely used among tantalum chip capacitors.

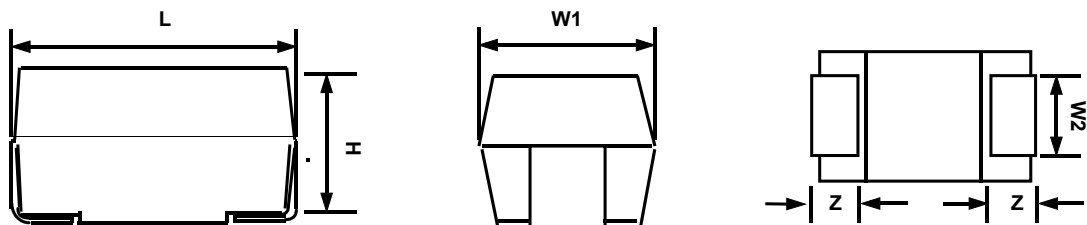
- Molded Case available in six case codes.
- Compatible with automatic pick and place equipment.
- Meets or Exceeds EIA standard 535BAAC .

● Application

- General electronic equipment
- Smoothing Circuit of DC-DC Converters & Output side of AC-DC Converters
- De-Coupling Circuit of High Speed ICs & MPUs
- Various Other High Frequency Circuit Applications

Tantalum Capacitor

■ APPEARANCE AND DIMENSION



Code	EIA Code	DIMENSION (mm)				
		L	W ₁	W ₂	H	Z
J	1608	16+0.15 -0.1	0.85+0.15 -0.1	0.6±0.1	0.85+0.15 -0.1	0.4±0.1
P	2012	2012	2.0 ±0.2	1.25 ±0.2	0.9 ±0.1	1.2 MAX
A	3216	3.2 ±0.2	1.6 ±0.2	1.2 ±0.1	1.6 ±0.2	0.8 ±0.3
B	3528	3.5 ±0.2	2.8 ±0.2	2.2 ±0.1	1.9 ±0.2	0.8 ±0.3
C	6032	6.0 ±0.3	3.2 ±0.3	2.2 ±0.1	2.5 ±0.3	1.3 ±0.3
D	7343	7.3 ±0.3	4.3 ±0.3	2.4 ±0.1	2.8 ±0.3	1.3 ±0.3

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■ PART NUMBERING

TC	SCN	0J	106	M	B	A	R
①	②	③	④	⑤	⑥	⑦	⑧

- ① Abbriation of Tantalum Capacitor
- ② Type of Series
- ③ Rated Voltage Code
- ④ Capacitance Code
- ⑤ Capacitance Tolerance Code
- ⑥ Case size Code
- ⑦ Packing Code
- ⑧ Packing polarity Code

① Tantalum Capacitor

The symbol shows a simplified character of the tantalum capacitor.

② Type of Series

The symbol shows the type of the capacitor. (SCN, SCS)

- SCN : Samsung Capacitor Normal - Standard series
- SVN : Samsung enVironmental capacitor Normal - Pb-free series

③ Rated Voltage Code

Symbol	DC Rated Voltage	Symbol	DC Rated Voltage
0E	2.5	1C	16
0G	4	1D	20
0J	6.3	1E	25
1A	10	1V	35

④ Capacitance Code

Symbol	Capacitance (μF)	Pico Farad (pF)	Symbol	Capacitance (μF)	PicoFarad (pF)
105	1.0	10×10^5	685	6.8	68×10^5
106	10.0	10×10^6	476	47	47×10^6
107	100.0	10×10^7	477	470	47×10^7

⑤ Capacitance tolerance Code

Symbol	Tolerance(%)	Symbol	Tolerance(%)
K	± 10	M	± 20

Tantalum Capacitor

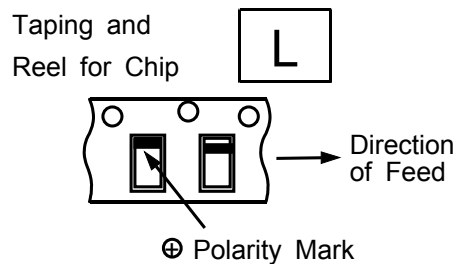
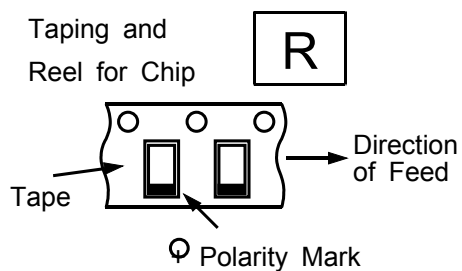
⑥ Case size Code

Case	EIA Code	Case	EIA Code
J	1608	C	6032
P	2012	D	7343
A	3216		
B	3528		

⑦ Packing Code

Symbol	Packing Code
A	7 inch
C	13 inch

⑧ Packing polarity Code



Bulk



Tantalum Capacitor

■ PACKAGING

● Marking

▶ J Case

J case 4.7 μ F 6.3V

+



————— Polarity (White Stripe)

————— Capacitance & Working voltage Code

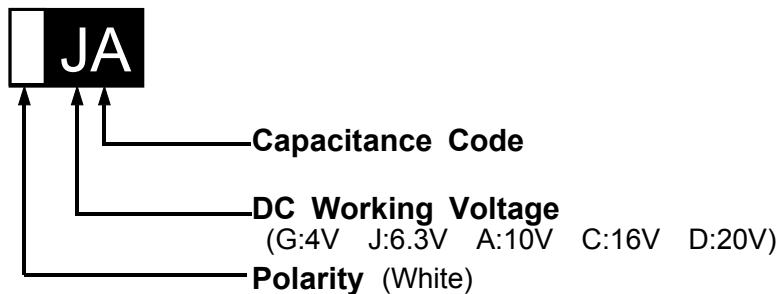
Marking (6.3V basis)	CAP.	1.0	1.5	2.2	3.3	4.7	6.8	10
	Code	a	E	J	N	S	W	A

【Code Reference】

μ F \ V	4	6.3	10	16
1.0		a	B	C
1.5	D	E	F	G
2.2	I	J	K	L
3.3	M	N	O	P
4.7	R	S	T	U
6.8	V	W	X	Y
10	Z	A		

Tantalum Capacitor

► P Case



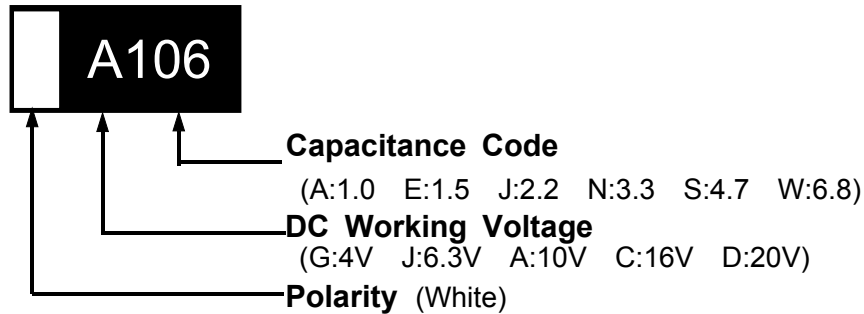
Capacitance Range	1 DIGIT	2 DIGIT
$< 1.0\mu F$	A Small Letter	A Small Letter
$1.0\mu F \leq \text{Cap.} < 10\mu F$	A Capital Letter	A Small Letter
$\geq 10\mu F$	A Capital Letter	A Capital Letter

【Code Reference】

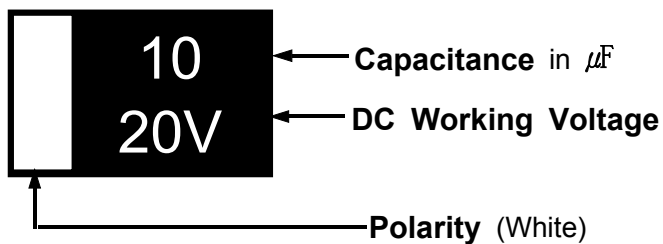
$\mu F \backslash V$	4	6.3	10	16	20
0.22	gj	jj	aj	cj	
0.33					
0.47	gs	js	as	cs	ds
0.68	gw	jw	aw	cw	dw
1.0	Ga	Ja	Aa	Ca	
1.5					
2.2	Gj	Jj	Aj		
3.3	Gn	Jn	An		
4.7	Gs	Js	As		
6.8	Gw	Jw			
10	GA	JA	AA		
15					
22	GJ				

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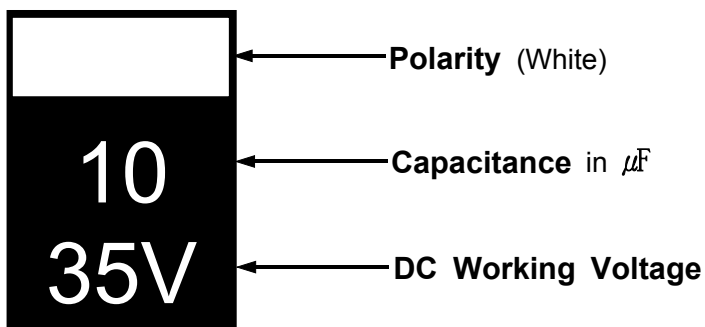
► A Case



► B Case



► C,D Case

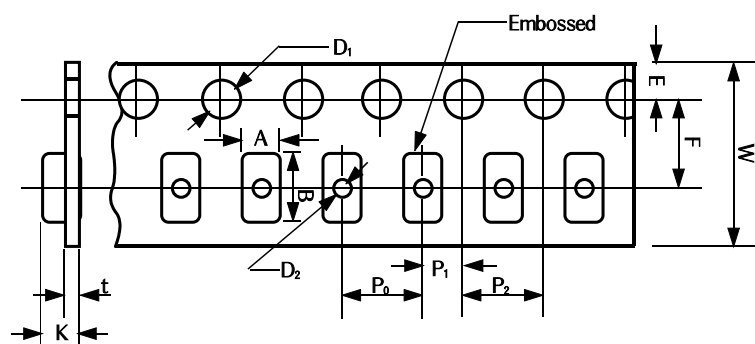
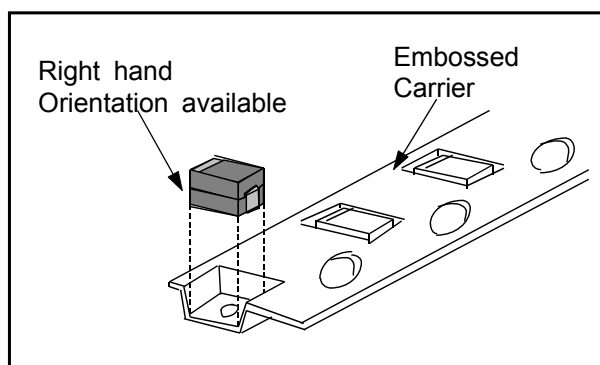


Tantalum Capacitor

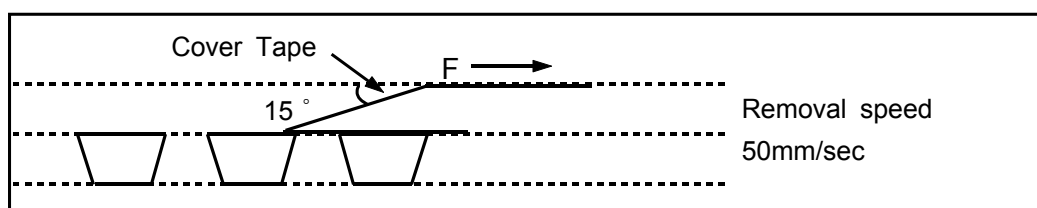
● Embossed Plastic Type

The tantalum chip capacitors shall be packaged in tape and reel form for effective use.

- Tape : Semitransparent embossed plastic
- Cover tape : Attached with press, polyester
- The tension of removing the cover tape,
F=10~70g

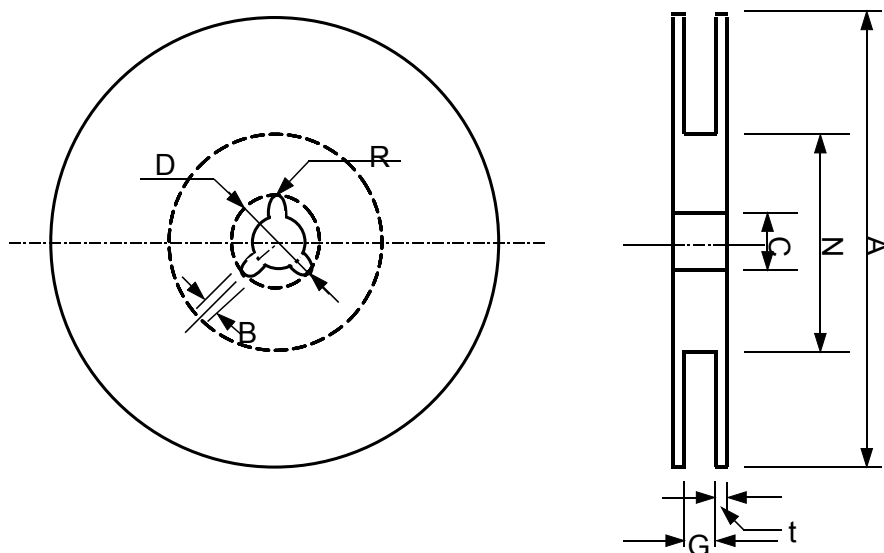


Case Code	W±0.3 (± 0.012)	F±0.1 (± 0.004)	E±0.1 (± 0.004)	P ₀ ±0.1 (± 0.004)	P ₁ ±0.1 (± 0.004)	P ₂ ±0.1 (± 0.004)	D ₁ ±0.1 (+0.00 4)	D ₂ Min.	t	A±0.2 (± 0.008)	B±0.2 (± 0.008)	K±0.2 (± 0.008)
J*	8 (0.315)	3.5 (0.138)	1.75 (0.069)	4 (0.157)	2 (0.079)	4 (0.157)	ø1.5 (0.059)	ø0.6 (0.024)	0.25 (0.0098)	0.98 (0.039)	1.80 (0.071)	1.0 (0.039)
P*								ø1.0 (0.039)	0.2 (0.008)	1.4 (0.055)	2.3 (0.091)	1.4 (0.055)
A										1.9 (0.075)	3.5 (0.138)	1.9 (0.075)
B										3.3 (0.130)	3.8 (0.150)	2.1 (0.083)
C	12 (0.472)	5.5 (0.217)		8 (0.315)				ø1.5 (0.059)	0.3 (0.012)	3.7 (0.146)	6.4 (0.252)	3.0 (0.118)
D										4.8 (0.189)	7.7 (0.303)	3.3 (0.130)



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● Reel Demension



Tape Width	A±2 (±0.079)	N Min.	C±0.5 (±0.020)	D±0.5 (±0.020)	B±0.51 (±0.020)		t±0.5 (±0.020)	R
8mm	ø178 (7)	ø70 (2.756)	ø13 (0.512)	ø21 (0.827)	2 (0.079)	10 (0.394)	2 (0.079)	0.99 (0.039)
12mm		ø60 (2.362)				14 (0.551)		
8mm	ø330 (13)	ø80 (3.150)	ø13 (0.512)	ø21 (0.827)	2 (0.079)	10 (0.394)	2 (0.079)	0.99 (0.039)
12mm						14 (0.551)		

Case Size reference	180mm(7") reel	330mm(13") reel
J	4,000pcs	-
P	3,000pcs	-
A , B	2,000pcs	8,000pcs
C , D	500pcs	2,500pcs