

TC Series

Tantalum Solid Electrolytic Capacitors Chip Type (Surface mount)



FEATURES:

- Lead-Free, ROHS Compliant.
- General purpose surface mount type.
- Compact size & wide CV range.
- High solderability & stable characteristics for soldering.
- Compatible with all popular automatic pick and place equipment.



SPECIFICATION:

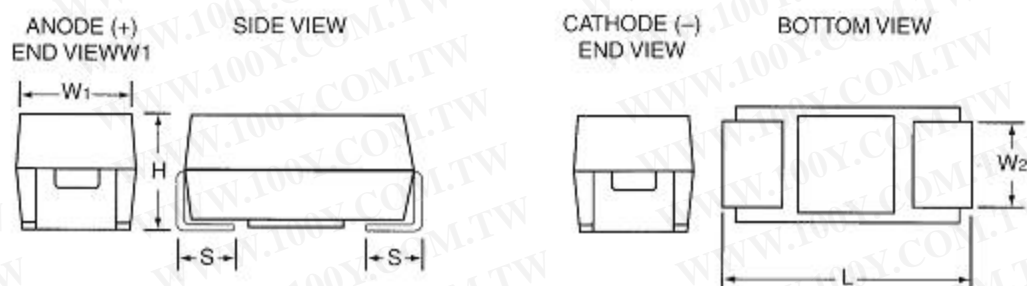
Item	Performance Characteristics									
Operating Temperature Range	-55 to + 125°C									
Rated Working Voltage Range	4 to 50 V DC									
Nominal Capacitance Range	0.1 to 1500μF									
Capacitance Tolerance	±20% ± 10% (120Hz, +20°C)									
Leakage Current	Not more than 0.01CV [μA] or 0.5μA whichever is greater									
Characteristics at High and Low Temperature	Capacitance (μF)	Capacitance Change(%)			DF Max.(%)				DCL Max.(μF)	
		-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+85°C	+125°C
	≤1.0	-10	+10	+12	6	4	6	6	10L	12L
	1.5~68				10	6	10	10		
	100~680				12	8	12	12		
680~1000	14				10	14	14			
Moisture Resistance	Test conditions									
	Relative humidity : 90 to 95% without load									
	Ambient temperature : +40°C									
	Duration : 500 hours									
	Post test requirements at + 20°C									
	Leakage current : ≤ Initial specified value									
Endurance	Capacitance change : ± 10% of initial measured value									
	tan δ : ≤ Initial specified value									
	Test conditions									
	Item	Conditions			Derating			Rating		
	Duration				2000 hours			2000 hours		
	Ambient temperature				+ 125°C			+ 85°C		
	Applied voltage				Derated working voltage			Rated working voltage		
	Source impedance				1Ω/V			1Ω/V		
	Derating Voltage + 125°C for 10~50V working									
	Rated Voltage	4.0	6.3	10.0	16.0	20.0	25.0	35.0	50.0	
	Voltage Derating	2.5	4.0	6.3	16.0	13.0	16.0	23.0	33.0	
	Surge Voltage+85°C	5.0	8.0	13.0	16.0	26.0	32.0	46.0	65.0	
	Surge Voltage+125°C	3.4	5.0	9.0	16.0	16.0	20.0	26.0	38.0	
	Post test requirements at +20°C									
	Leakage current : ≤ 125% of initial specified value									
	Capacitance change : ± 10% of initial measured value									
	tan δ : ≤ Initial specified value									
	Shelf Life	Test conditions								
Duration : 2000 hours										
Ambient temperature : +125°C										
Applied voltage : (none)										
Solder Heat Resistance	The capacitor shall withstand dipping into solder bath for 5±1 seconds at 260±5°C									

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1. Tantalum Capacitor CHIP TYPE OUTLINE DRAWINGS.



2. Dimensions Millimeters (Inch)

Case Size	L±0.2 (0.008)	W1±0.2 (0.008)	H±0.2 (0.008)	S±0.2 (0.008)	W2±0.2 (0.008)
S	2.0 (0.079)	1.2 (0.047)	1.2 (0.047)	0.5 (0.020)	1.2 (0.047)
A	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	0.8 (0.031)	1.2 (0.047)
B	3.5 (0.137)	2.8 (0.110)	1.9 (0.075)	0.8 (0.031)	2.2 (0.087)
C	6.0 (0.236)	3.2 (0.126)	2.5 (0.098)	1.3 (0.051)	2.2 (0.087)
D	7.3 (0.287)	4.3 (0.169)	2.8 (0.110)	1.3 (0.051)	2.4 (0.094)
E	7.3 (0.287)	4.3 (0.169)	4.0 (0.157)	1.3 (0.051)	2.4 (0.094)
V	7.3 (0.287)	6.1 (0.240)	3.5 (0.135)	1.4 (0.055)	3.1 (0.120)

3. Rated Voltage, Capacitance of Capacitors.

Rated Voltage (V)	4	6.3	10	16	20	25	35	50
Code	0G	0J	1A	1C	1D	1E	1V	1H
Capacitance (μF)	Case Size							
0.10 (104)					S		A	A
0.15 (154)					S		A	A/B
0.22 (224)					S		A	A/B
0.33 (334)					S		A	B
0.47 (474)				S	S	A	A/B	B/C
0.68 (684)			S	S	S/A	A	A/B	B/C
1.0 (105)		S	S	S/A	A	A	A/B	B/C
1.5 (155)	S	S	S/A	S/A	A	A/B	A/B/C	C/D
2.2 (225)	S	S/A	S/A	A	A	A/B	A/B/C	C/D
3.3 (335)	S	S/A	S/A	A	A	A/B/C	B/C	C/D
4.7 (475)	S/A	S/A	A	A/B	A/B	B/C	B/C/D	D
6.8 (685)	S/A	A	A	A/B	A/B	B/C	C/D	D
10 (106)	A	A	A	A/B/C	B	C/D	C/D/E	D/E
15 (156)	A	A	A	A/B/C	B	C/D	C/D	E
22 (226)	A	A/B	A/B/C	B/C/D	B	C/D	D/E	V
33 (336)	A	A/B/C	B/C	B/C/D	C	D/E	D/E/V	
47 (476)	A	A/B/C	B/C	C/D	C	D/E	E/V	
68 (686)	B/C	B/C	B/C/D	C/D	D	E/V	V	
100 (107)	B/C	B/C/D	B/C/D	D/E	D/E/V	V		
150 (157)	B/C	C/D	C/D/E	D/E/V	E/V			
220 (227)	B/C/D	C/D/E	D/E	D/E/V				
330 (337)	C/D/E	D/E	D/E/V					
470 (477)	D/E	D/E/V	E/V					
680 (687)	D/E	E/V						
1000 (108)	E/V	V						
1500 (158)	E/V							

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Explanation of Part Numbers

T C	A	4 7 5	M	016	T	R
Series Code	Case Size	Nominal Capacitance	Capacitance Tolerance	Rated Voltage	Carrier Tape Packaging	Polarity Orientation

RATINGS AND PART NUMBER REFERENCE

SONJIU Part No.	Case Size	Capacitance μF	DCL (μA) Max	DF % Max	ESR Max(Ω) @100kHz
4 volt @85°C(2.5volt,@125°C)					
TC S 155(#004TR	S	1.5	0.5	6	30
TC S 225(#004TR	S	2.2	0.5	6	25
TC S 335(#004TR	S	3.3	0.5	6	20
TC S 475(#004TR	S	4.7	0.5	6	10
TC A 475(#004TR	A	4.7	0.5	6	7.5
TC S 685(#004TR	S	6.8	0.5	6	7.0
TC A 685(#004TR	A	6.8	0.5	6	6.5
TC A 106(#004TR	A	10	0.5	6	6.0
TC A 156(#004TR	A	15	0.6	6	4.0
TC A 226(#004TR	A	22	0.9	6	3.5
TC A 336(#004TR	A	33	1.3	6	3.0
TC A 476(#004TR	A	47	1.9	8	2.6
TC B 686(#004TR	B	68	2.7	6	1.6
TC C 686(#004TR	C	68	2.7	6	1.1
TC B 107(#004TR	B	100	4.0	8	0.9
TC C 107(#004TR	C	100	4.0	8	1.3
TC B 157(#004TR	B	150	6.0	8	1.5
TC C 157(#004TR	C	150	6.0	8	0.9
TC B 227(#004TR	B	220	8.8	12	1.1
TC C 227(#004TR	C	220	8.8	8	1.2
TC D 227(#004TR	D	220	8.8	8	0.9
TC C 337(#004TR	C	330	13.2	8	0.9
TC D 337(#004TR	D	330	13.2	8	0.9
TC E 337(#004TR	E	330	13.2	8	0.9
TC D 477(#004TR	D	470	18.8	12	0.9
TC E 477(#004TR	E	470	18.8	10	0.9
TC D 687(#004TR	D	680	27.2	14	0.5
TC E 687(#004TR	E	680	27.2	14	0.9
TC E 108(#004TR	E	1000	40	14	0.4
TC V 108(#004TR	V	1000	40	16	0.4
TC E 158(#004TR	E	1500	60	30	0.2
TC V 158(#004TR	V	1500	60	30	0.2

6.3 volt @85°C(4volt,@125°C)					
TC S 105(#006TR	S	1.0	0.5	4	25
TC S 155(#006TR	S	1.5	0.5	6	25
TC S 225(#006TR	S	2.2	0.5	6	20
TC A 225(#006TR	A	2.2	0.5	6	9
TC S 335(#006TR	S	3.3	0.5	6	12
TC A 335(#006TR	A	3.3	0.5	6	7.0
TC S 475(#006TR	S	4.7	0.5	6	7.0
TC A 475(#006TR	A	4.7	0.5	6	6.0
TC A 685(#006TR	A	6.8	0.5	6	5.0
TC A 106(#006TR	A	10	0.6	6	4.0
TC A 156(#006TR	A	15	0.9	6	4.0
TC A 226(#006TR	A	22	1.4	6	3.5
TC B 226(#006TR	B	22	1.4	6	2.5
TC A 336(#006TR	A	33	2.0	8	2.5
TC B 336(#006TR	B	33	2.0	6	2.0
TC C 336(#006TR	C	33	2.0	6	1.8
TC A 476(#006TR	A	47	2.8	10	1.6
TC B 476(#006TR	B	47	3.0	6	2.0
TC C 476(#006TR	C	47	3.0	6	1.6
TC B 686(#006TR	B	68	4.0	8	0.9
TC C 686(#006TR	C	68	4.3	6	1.6
TC B 107(#006TR	B	100	6.3	10	1.7
TC C 107(#006TR	C	100	6.3	8	1.4
TC D 107(#006TR	D	100	6.3	8	0.9
TC C 157(#006TR	C	150	9.5	6	1.3
TC D 157(#006TR	D	150	9.5	8	0.9
TC C 227(#006TR	C	220	13.9	8	1.2
TC D 227(#006TR	D	220	13.9	8	0.9
TC E 227(#006TR	E	220	13.9	8	0.9
TC D 330(#006TR	D	330	20.9	8	0.4
TC E 330(#006TR	E	330	20.9	8	0.4

SONJIU Part No.	Case Size	Capacitance μF	DCL (μA) Max	DF % Max	ESR Max(Ω) @100kHz
6.3 volt @85°C(4volt,@125°C)					
TC D 477(#006TR	D	470	28.0	12	0.4
TC E 477(#006TR	E	470	28.0	10	0.4
TC V 477(#006TR	V	470	28.0	10	0.4
TC E 687(#006TR	E	680	42.8	10	0.5
TC V 687(#006TR	V	680	42.8	10	0.5
TC V 108(#006TR	V	1000	63	16	0.4
10 volt @85°C(6.3volt,@125°C)					
TC S 684(#010TR	S	0.68	0.5	4	30.0
TC S 105(#010TR	S	1.0	0.5	4	25.0
TC S 155(#010TR	S	1.5	0.5	6	25.0
TC A 155(#010TR	A	1.5	0.5	6	10.0
TC S 225(#010TR	S	2.2	0.5	6	15.0
TC A 225(#010TR	A	2.2	0.5	6	7.0
TC S 335(#010TR	S	3.3	0.5	6	10.0
TC A 335(#010TR	A	3.3	0.5	6	5.5
TC A 475(#010TR	A	4.7	0.5	6	5.0
TC A 685(#010TR	A	6.8	0.7	6	4.0
TC A 106(#010TR	A	10	1.0	6	3.0
TC A 156(#010TR	A	15	1.5	6	3.2
TC A 226(#010TR	A	22	2.2	8	3.0
TC B 226(#010TR	B	22	2.2	6	2.4
TC C 226(#010TR	C	22	2.2	6	1.8
TC B 336(#010TR	B	33	3.3	6	1.8
TC C 336(#010TR	C	33	3.3	6	1.6
TC B 476(#010TR	B	47	4.7	8	1.0
TC C 476(#010TR	C	47	4.7	6	1.2
TC B 686(#010TR	B	68	6.8	6	1.4
TC C 686(#010TR	C	68	6.8	6	0.9
TC D 686(#010TR	D	68	6.8	6	0.9
TC B 107(#010TR	B	100	10	8	1.4
TC C 107(#010TR	C	100	10	8	1.2
TC D 107(#010TR	D	100	10	6	0.9
TC C 157(#010TR	C	150	15	8	0.9
TC D 157(#010TR	D	150	15	6	0.9
TC E 157(#010TR	E	150	15	8	0.9
TC D 227(#010TR	D	220	22	8	0.5
TC E 227(#010TR	E	220	22	8	0.5
TC D 337(#010TR	D	330	33	8	0.9
TC E 337(#010TR	E	330	33	8	0.9
TC V 337(#010TR	V	330	33	10	0.9
TC E 477(#010TR	E	470	47	10	0.5
TC V 477(#010TR	V	470	47	10	0.5

16 volt @85°C (10 volt,@125°C)					
TC S 474(#016TR	S	0.47	0.5	4	25.0
TC S 684(#016TR	S	0.68	0.5	4	25.0
TC S 105(#016TR	S	1.0	0.5	6	20.0
TC A 105(#016TR	A	1.0	0.5	6	11.0
TC S 155(#016TR	S	1.5	0.5	6	12.0
TC A 155(#016TR	A	1.5	0.5	6	8.0
TC A 225(#016TR	A	2.2	0.5	6	6.5
TC A 335(#016TR	A	3.3	0.5	6	5.0
TC A 475(#016TR	A	4.7	0.8	6	4.0
TC B 475(#016TR	B	4.7	0.8	6	3.5
TC A 685(#016TR	A	6.8	1.1	6	3.5
TC B 685(#016TR	B	6.8	1.1	6	2.5
TC A 106(#016TR	A	10	1.6	8	3.0
TC B 106(#016TR	B	10	1.6	6	2.8
TC C 106(#016TR	C	10	1.6	6	2.0
TC A 156(#016TR	A	15	2.4	6	1.8
TC B 156(#016TR	B	15	2.4	6	2.5
TC C 156(#016TR	C	15	2.4	6	1.8
TC B 226(#016TR	B	22	3.5	6	2.3
TC C 226(#016TR	C	22	3.5	6	1.6
TC D 226(#016TR	D	22	3.5	6	1.1

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RATINGS AND PART NUMBER REFERENCE

SONJIU Part No.	Case Size	Capacitance (μF)	DCL (μA) Max	DF % Max	ESR Max(Ω) @100kHz
16 volt @85°C (10 volt @125°C)					
TC B 336(016)TR	B	33	5.3	8	2.1
TC C 336(016)TR	C	33	5.3	6	1.5
TC D 336(016)TR	D	33	5.3	6	0.9
TC C 476(016)TR	C	47	7.5	6	1.4
TC D 476(016)TR	D	47	7.5	6	0.9
TC C 686(016)TR	C	68	10.9	6	1.3
TC D 686(016)TR	D	68	10.9	6	0.9
TC D 107(016)TR	D	100	16	6	0.9
TC E 107(016)TR	E	100	16	6	0.9
TC D 157(016)TR	D	150	24	6	0.9
TC E 157(016)TR	E	150	24	8	0.3
TC V 157(016)TR	V	150	24	8	0.5
TC D 227(016)TR	D	220	35.2	8	0.5
TC E 227(016)TR	E	220	35.2	8	0.5
TC V 227(016)TR	V	220	35.2	8	0.9
20 volt @85°C (16 volt @125°C)					
TC S 104(020)TR	S	0.1	0.5	4	25
TC S 154(020)TR	S	0.15	0.5	4	25
TC S 224(020)TR	S	0.22	0.5	4	25
TC S 334(020)TR	S	0.33	0.5	4	25
TC S 474(020)TR	S	0.47	0.5	4	25
TC S 684(020)TR	S	0.68	0.5	4	25
TC A 684(020)TR	A	0.68	0.5	4	12
TC A 105(020)TR	A	1.0	0.5	4	9.0
TC A 155(020)TR	A	1.5	0.5	6	6.5
TC A 225(020)TR	A	2.2	0.5	6	5.3
TC A 335(020)TR	A	3.3	0.7	6	4.5
TC A 475(020)TR	A	4.7	0.9	6	4.0
TC B 475(020)TR	B	4.7	0.9	6	3.0
TC A 685(020)TR	A	6.8	1.4	6	2.5
TC B 685(020)TR	B	6.8	1.4	6	2.5
TC B 106(020)TR	B	10	2.0	6	2.1
TC B 156(020)TR	B	15	3.0	6	2.0
TC B 226(020)TR	B	22	4.4	6	1.8
TC C 336(020)TR	C	33	6.6	6	1.5
TC C 476(020)TR	C	47	9.4	6	0.9
TC D 686(020)TR	D	68	13.6	6	0.9
TC D 107(020)TR	D	100	20.0	6	0.9
TC E 107(020)TR	E	100	20.0	6	0.9
TC V 107(020)TR	V	100	20.0	8	0.9
TC E 157(020)TR	E	150	30.0	8	0.3
TC V 157(020)TR	V	150	30.0	8	0.5
25 volt @85°C (16 volt @125°C)					
TC A 474(025)TR	A	0.47	0.5	4	14.0
TC A 684(025)TR	A	0.68	0.5	4	10.0
TC A 105(025)TR	A	1.0	0.5	4	8.0
TC A 155(025)TR	A	1.5	0.5	6	7.5
TC B 155(025)TR	B	1.5	0.5	6	5.0
TC A 225(025)TR	A	2.2	0.6	6	7.0
TC B 225(025)TR	B	2.2	0.6	6	4.5
TC A 335(025)TR	A	3.3	0.8	6	3.7
TC B 335(025)TR	B	3.3	0.8	6	3.5
TC C 335(025)TR	C	3.3	0.8	6	2.8
TC B 475(025)TR	B	4.7	1.2	6	2.8
TC C 475(025)TR	C	4.7	1.2	6	2.4
TC B 685(025)TR	B	6.8	1.7	6	2.8
TC C 685(025)TR	C	6.8	1.7	6	2.0
TC C 106(025)TR	C	10	2.5	6	1.8
TC D 106(025)TR	D	10	2.5	6	1.2
TC C 156(025)TR	C	15	3.8	6	1.6
TC D 156(025)TR	D	15	3.8	6	1.0
TC C 226(025)TR	C	22	5.5	6	1.4
TC D 226(025)TR	D	22	5.5	6	0.9
TC D 336(025)TR	D	33	8.3	6	0.9
TC E 336(025)TR	E	33	8.3	6	0.9
TC D 476(025)TR	D	47	11.8	6	0.9
TC E 476(025)TR	E	47	11.8	6	0.9

SONJIU Part No.	Case Size	Capacitance (μF)	DCL (μA) Max	DF % Max	ESR Max(Ω) @100kHz
25 volt @85°C (16 volt @125°C)					
TC E 686(025)TR	E	68	17	6	0.9
TC V 686(025)TR	V	68	17	6	0.9
TC V 107(025)TR	V	100	25	8	1.4
35 volt @85°C (22 volt @125°C)					
TC A 104(035)TR	A	0.1	0.5	4	24
TC A 154(035)TR	A	0.15	0.5	4	21
TC A 224(035)TR	A	0.22	0.5	4	18
TC A 334(035)TR	A	0.33	0.5	4	15
TC A 474(035)TR	A	0.47	0.5	4	12
TC B 474(035)TR	B	0.47	0.5	4	10
TC A 684(035)TR	A	0.68	0.5	4	8.0
TC B 684(035)TR	B	0.68	0.5	4	8.0
TC A 105(035)TR	A	1.0	0.5	4	7.5
TC B 105(035)TR	B	1.0	0.5	4	6.5
TC A 155(035)TR	A	1.5	0.5	6	7.5
TC B 155(035)TR	B	1.5	0.5	6	5.2
TC C 155(035)TR	C	1.5	0.5	6	4.5
TC A 225(035)TR	A	2.2	0.8	6	4.5
TC B 225(035)TR	B	2.2	0.8	6	4.2
TC C 225(035)TR	C	2.2	0.8	6	3.5
TC B 335(035)TR	B	3.3	1.2	6	3.5
TC C 335(035)TR	C	3.3	1.2	6	2.5
TC B 475(035)TR	B	4.7	1.2	6	3.1
TC C 475(035)TR	C	4.7	1.6	6	2.2
TC D 475(035)TR	D	4.7	1.6	6	1.5
TC C 685(035)TR	C	6.8	2.4	6	1.8
TC D 685(035)TR	D	6.8	2.4	6	1.3
TC C 106(035)TR	C	10	3.5	6	1.6
TC D 106(035)TR	D	10	3.5	6	1.0
TC E 106(035)TR	E	10	3.5	6	0.9
TC C 156(035)TR	C	15	5.3	6	1.4
TC D 156(035)TR	D	15	5.3	6	0.9
TC D 226(035)TR	D	22	7.7	6	0.9
TC E 226(035)TR	E	22	7.7	6	0.9
TC D 336(035)TR	D	33	11.6	6	0.9
TC E 336(035)TR	E	33	11.6	6	0.9
TC V 336(035)TR	V	33	11.6	6	0.9
TC E 476(035)TR	E	47	16.5	6	0.9
TC V 476(035)TR	V	47	16.5	6	0.4
TC V 686(035)TR	V	68	23.8	6	0.5
50 volt @85°C (32 volt @125°C)					
TC A 104(050)TR	A	0.1	0.5	4	22
TC A 154(050)TR	A	0.15	0.5	4	17
TC B 154(050)TR	B	0.15	0.5	4	15
TC A 224(050)TR	A	0.22	0.5	4	18
TC B 224(050)TR	B	0.22	0.5	4	14
TC B 334(050)TR	B	0.33	0.5	4	12
TC B 474(050)TR	B	0.47	0.5	4	9.5
TC C 474(050)TR	C	0.47	0.5	4	8.0
TC B 684(050)TR	B	0.68	0.5	4	8.0
TC C 684(050)TR	C	0.68	0.5	4	7.0
TC B 105(050)TR	B	1.0	0.5	4	7.0
TC C 105(050)TR	C	1.0	0.5	4	5.5
TC C 155(050)TR	C	1.5	0.8	6	4.5
TC D 155(050)TR	D	1.5	0.8	6	4.0
TC C 225(050)TR	C	2.2	1.1	6	3.0
TC D 225(050)TR	D	2.2	1.1	6	2.5
TC C 335(050)TR	C	3.3	1.7	6	2.5
TC D 335(050)TR	D	3.3	1.7	6	2.0
TC D 475(050)TR	D	4.7	2.4	6	1.4
TC D 685(050)TR	D	6.8	3.4	6	1.0
TC D 106(050)TR	D	10.0	5.0	6	0.8
TC E 106(050)TR	E	10.0	5.0	6	1.0
TC E 156(050)TR	E	15.0	7.5	6	0.6
TC V 226(050)TR	V	22.0	11.0	8	0.6

All technical data relates to an ambient temperature of +20°C
measured at 120 HZ, 0.5V RMS unless otherwise stated.
For 10% tolerance, insert, "K" in (#) above.
For 20% tolerance, insert, "M" in (#) above.

TC Series

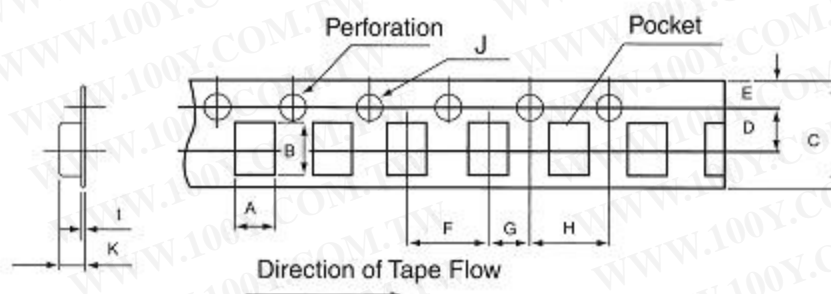
Tantalum Solid Electrolytic Capacitors
Chip Type (Surface mount)



Carrier Tape Packaging Specification

Dimensions of the carrier tape and standard parts quantity per reel.

Dimensions



(Unit:mm)

CASE SIZE	A ± 0.1	B ± 0.1	C ± 0.3	D ± 0.1	E ± 0.1	F ± 0.1	G ± 0.1	H ± 0.1	J $+0.1$ -0	K MAX	t	Quantity Per Reel
S	1.6	2.4	8.0	3.5	1.75	4.0	2.0	4.0	1.5	2.5	0.2	2000
A	1.9	3.5	8.0	3.5	1.75	4.0	2.0	4.0	1.5	2.5	0.2	2000
B	3.1	3.8	8.0	3.5	1.75	4.0	2.0	4.0	1.5	2.5	0.2	2000
C	3.6	6.4	12.0	5.5	1.75	8.0	2.0	4.0	1.5	3.0	0.3	500
D	4.7	7.7	12.0	5.5	1.75	8.0	2.0	4.0	1.5	3.4	0.3	500
E	4.6	7.6	12.0	5.5	1.75	8.0	2.0	4.0	1.5	4.6	0.3	400
V	6.4	7.4	12.0	5.5	1.75	8.0	2.0	4.0	1.5	3.8	0.3	400

Inserting Direction (Polarity Orientation)

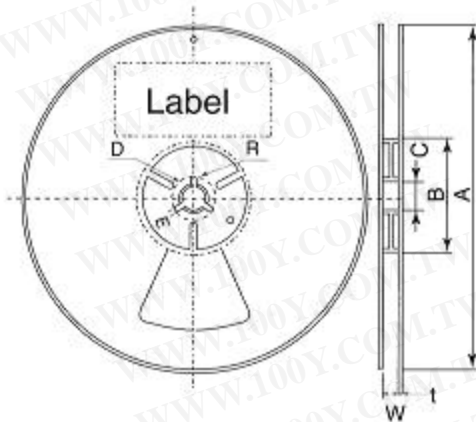
Polarity L: To be inserted with
the positive side to the feed hole.



Polarity R: To be inserted with
the negative side to the feed hole.



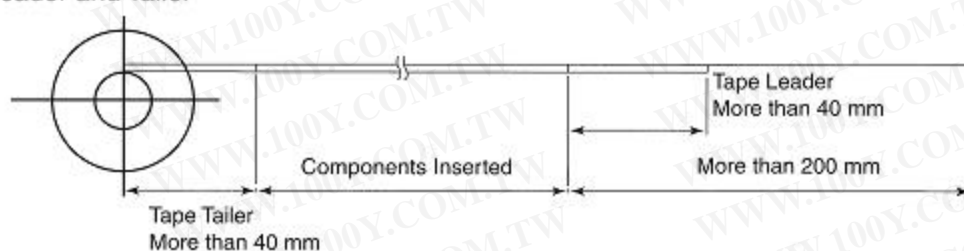
Reel Dimensions



(Unit:mm)

Tape width	8	12
A_0^0	$\phi 180$	←
B_0^{+1}	$\phi 60$	←
$C \pm 0.2$	$\phi 13$	←
$D \pm 0.8$	$\phi 21$	←
$E \pm 0.5$	2.0	←
$W \pm 0.3$	9.0	13.0
$t \pm 0.4$	1.3	←
$R \pm 0.4$	10.5	←

Tape Leader and Tailer



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
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