

Kingtronics®

PKT

Solid Polymer Tantalum Capacitors

ULTRA-LOW ESR, CONDUCTIVE POLYMER CHIP TANTALUM CAPACITORS, SOILD POLYMER TANTALUM CAPACITORS

FEATURES

- Epoxy molded encapsulation, Chip, Easy for integration, Polarized
- Extremely low ESR , Volumetrically efficient , Stable in electrical & storage performances, Long life-span, High reliability
- Typical applications include DC/DC converters , notebook PCs , portable electronics , telecommunications (mobile phone and base station) , displays ,SSD,HDD and USB
- Operative Standard: QJ/PWV517-2013

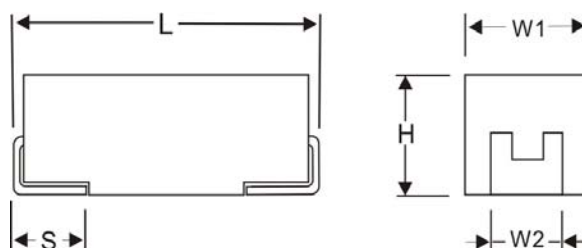


Technical Specifications

Technical Data	All technical data relate to an ambient temperature of +25°C
Operating Temperature Range	-55°C to +105°C
Capacitance Range	0.47µF ~ 1000µF at 100 Hz
Capacitance Tolerance	M tolerance (±20%)
Leakage Current DCL	0.1CV (µA)at rated voltage after 5 minutes
Equivalent Series Resistance ESR	Refer to Part Number Electrical Specifications Table
Termination Finished	Sn Plating (standard), Gold and SnPb Plating upon request
Resistance to soldering heat	3×260°C peak for max. 10s reflow

Diagram of Dimensions (unit: mm)

Case	L	W1	H	W2	S
A	3.2±0.2	1.6±0.2	1.6±0.2	0.8±0.2	1.2±0.2
B	3.5±0.2	2.8±0.2	1.9±0.2	0.8±0.2	2.2±0.2
C	6.0±0.2	3.2±0.2	2.5±0.2	1.3±0.2	2.2±0.2
H	7.3±0.2	4.3±0.2	2.0±0.2	1.3±0.2	2.4±0.2
D	7.3±0.2	4.3±0.2	2.8±0.2	1.3±0.2	2.4±0.2
E	7.3±0.4	4.3±0.4	4.1±0.4	1.3±0.2	2.4±0.2
V	7.3±0.4	6.1±0.4	3.6±0.4	1.35±0.2	3.0±0.2
W	7.3±0.4	6.1±0.4	4.1±0.4	1.35±0.2	3.0±0.2



Capacitance And Rated Voltage Range (Letter Denotes Case Size)

Rated Voltage(V)	2.5	4	6.3	10	16
Capacitance(µF)	Case Size & ESR				
1	B(300)				
1.5	B(300)				
2.2	B(300)				
3.3	A(250), B(150,300)				
4.7	A(250), B(100,150,300), C(150)				
6.8	A(180,250), B(100,150,300), C(150)				
10	A(120,250,300), A(80,120,300), B(100), A(200), B(100,200,300), C(150)				
15	A(120,300), B(100), A(300), B(90), A(80,200), B(90), C(70), B(100,150,300), C(70,150), D(80)				
22	A(300), B(90), C(70), A(90,300), B(90), C(70), A(80), B(90,300), C(70), B(150), C(70,150), D(60,80), E(80)				
33	A(70,300), B(90), C(70), A(70,120,200), B(40,90,200), C(70,100), B(40), B(90,200), C(70,100), C(70,150), H(45,70), D(60,80), E(80)				

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Capacitance And Rated Voltage Range (Letter Denotes Case Size)

Rated Voltage(V)	2.5	4	6.3	10	16
Capacitance(μF)	Case Size & ESR				
47	A(90)	A(70,200), B(90), C(70)	A(150,200), B(40,90), C(70)	B(35,70,90), C(70,100)	C(150), H(45,80), D(35,70,90), E(50,80)
68	A(70,250)	A(250), B(25,40,80), C(70)	A(150), B(35,55,80), C(70,100), D(60)	C(45,70), H(45,60,100), D(45,60,100)	H(50,90), D(50,80), E(50,80)
100	A(200), B(25,40), B(70)	A(150,200,300), B(25,40,80), C(70)	A(70), B(25,45,70), C(25,45,70), H(45), D(60)	C(25,45,70), H(25,55), D(45,60,80)	H(50), D(60,80), E(40,80)
150	B(70)	B(25,40,70), C(25,45,100), H(25,45), D(60)	B(25,45,70), C(25,55), H(25,45), D(25,60)	C(55), H(25,55), D(25,40,60), E(50)	V(80), W(80), E(40,80)
220	B(25,55,70), C(25,45), H(25,45), D(40)	B(35,70), C(25,55), H(25,45), D(25,65)	B(25,70,200), C(25,45), H(25,50), D(40,60), E(50)	H(25,50), D(25,60), E(50)	V(40), V(80), W(80), E(35,50,80)
330	B(35,70), C(25,45), H(25,40), D(25,60)	C(25,45), H(25,50), D(25,60), E(50)	H(25,50), D(25,60), E(50)	V(40), E(35,50)	V(40), V(80), W(80), E(25,50,80)
470	C(25,45), H(25,50), D(25,40,60)	H(25,50), D(25,60), E(50)	H(35,55), D(30), V(40), E(35,50)		
680	D(25,40), E(50)	D(25), V(40), E(35,50)	E(25)		
1000	D(30), V(40), E(50)				

Rated Voltage(V)	20	25	35	50	63
Capacitance(μF)	Case Size & ESR				
0.68		B(300)	B(350)	B(350,400)	
1	B(300)	B(300)	B(350)	B(300,350)	B(300), C(200,300), D(120)
1.5	B(300)	B(300), C(150)	B(200,350), C(200)	B(300,350), C(200,300)	C(200,300), D(120)
2.2	A(250), B(150,300)	B(250,300), C(100,150)	B(200,350), C(200)	B(350), C(200,300)	C(200), D(120)
3.3	A(250), B(150,00), C(150)	B(250,300), C(100,150)	B(200,350), C(200)	C(200), D(100)	C(200), D(120)
4.7	B(150,300), C(100,150)	B(150,250,300), C(100,150)	B(200,350), C(200)	C(200), D(100)	C(200), D(75,120,300), E(120)
6.8	B(150,300), C(100,150)	B(90,150,300), C(100,150)	C(200), D(90)	C(200), H(70,90), D(70,100,120)	D(120), E(100,150)
10	B(100,150,300), C(100,150)	B(100,150,300), C(100,150), D(90)	B(200), C(200), H(70,120), D(90), E(90)	D(90,120), E(70,100)	D(120), E(50,100,150)
15	B(90), C(80,150), D(70,80)	B(100,150), C(150), H(90), D(90), E(80)	C(200), H(100,125), D(70,100), E(90)	V(100), E(70,100)	V(120), E(35,120,150)
22	C(100,150), H(45,70), H(90), D(60,80), E(50,80)	B(150), C(100,150), H(60,90), D(60,80,100), E(80)	D(70,100), E(90)	V(100), W(100), E(75,100)	W(120)
33	C(150), H(70), D(60,80), E(50,80)	H(60,100), D(60,80,100), E(80)	D(65), D(100), V(90), E(55,70,90)	V(100), W(100), E(75)	
47	C(150), H(55,70,90), D(55,80), E(50,80)	D(60,80,100), E(50,80)	V(90), W(90), E(30,55,90)	W(100)	
68	D(55,80), E(45,80)	D(80), V(80), E(50,80)	W(90)		
100	D(55), V(80), E(45,80)	V(80), W(80), E(60,80)			
150	V(80), W(80), E(80)	V(80), W(80)			
220	V(80), W(80), E(80)				

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Rated Voltage (V)	Rated CAP (µF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(µA) @ 25°C	Max DF(%) @ 25°C 100Hz	Max ESR (mΩ) @ 25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
2.5	47	A	105	2.3	11.8	8	90	850	595	212
2.5	68	A	105	2.3	17	8	70	964	675	241
2.5	68	A	105	2.3	17	6	250	510	357	127
2.5	100	A	105	2.3	25	6	200	570	399	143
2.5	100	B	105	2.3	25	8	25	1732	1212	433
2.5	100	B	105	2.3	25	8	40	1369	959	342
2.5	100	B	105	2.3	25	8	70	1035	725	259
2.5	150	B	105	2.3	37.5	6	70	1035	725	259
2.5	220	B	105	2.3	55	8	25	1732	1212	433
2.5	220	B	105	2.3	55	8	55	1168	817	292
2.5	220	B	105	2.3	55	8	70	1035	725	259
2.5	220	C	105	2.3	55	8	25	1897	1328	474
2.5	220	C	105	2.3	55	8	45	1414	990	354
2.5	220	D	105	2.3	55	10	40	1620	1134	405
2.5	220	H	105	2.3	55	10	25	2236	1565	559
2.5	220	H	105	2.3	55	10	45	1667	1167	417
2.5	330	B	105	2.3	82.5	8	35	1464	1025	366
2.5	330	B	105	2.3	82.5	8	70	1035	725	259
2.5	330	C	105	2.3	82.5	8	25	1897	1328	474
2.5	330	C	105	2.3	82.5	8	45	1414	990	354
2.5	330	D	105	2.3	82.5	10	25	2049	1435	512
2.5	330	D	105	2.3	82.5	10	60	1323	926	331
2.5	330	H	105	2.3	82.5	10	25	2236	1565	559
2.5	330	H	105	2.3	82.5	10	40	1768	1237	442
2.5	470	C	105	2.3	117.5	8	25	1897	1328	474
2.5	470	C	105	2.3	117.5	8	45	1414	990	354
2.5	470	D	105	2.3	117.5	10	25	2049	1435	512
2.5	470	D	105	2.3	117.5	6	40	1620	1134	405
2.5	470	D	105	2.3	117.5	10	60	1323	926	331
2.5	470	H	105	2.3	117.5	6	25	2236	1565	559
2.5	470	H	105	2.3	117.5	6	50	1581	1107	395
2.5	680	D	105	2.3	170	10	25	2049	1435	512
2.5	680	D	105	2.3	170	10	40	1620	1134	405
2.5	680	E	105	2.3	170	10	50	1581	1107	395
2.5	1000	D	105	2.3	250	10	30	1871	1310	468
2.5	1000	E	105	2.3	250	10	50	1581	1107	395
2.5	1000	V	105	2.3	250	10	40	1936	1356	484
4	15	A	105	3.6	6	10	120	736	515	184
4	15	A	105	3.6	6	6	300	465	326	116
4	15	B	105	3.6	6	10	100	866	606	217
4	22	A	105	3.6	8.8	6	300	465	326	116
4	22	B	105	3.6	8.8	10	90	913	639	228
4	22	C	105	3.6	8.8	10	70	1134	794	283
4	33	A	105	3.6	13.2	8	70	964	675	241
4	33	A	105	3.6	13.2	6	300	465	326	116
4	33	B	105	3.6	13.2	10	90	913	639	228
4	33	C	105	3.6	13.2	10	70	1134	794	283

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_{DC} =2.2* 1.0V U_{AC}~1.0* 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Rated Voltage (V)	Rated CAP (µF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL (µA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
4	47	A	105	3.6	18.8	8	70	964	675	241
4	47	A	105	3.6	18.8	6	200	570	399	143
4	47	B	105	3.6	18.8	10	90	913	639	228
4	47	C	105	3.6	18.8	10	70	1134	794	283
4	68	A	105	3.6	27.2	6	250	510	357	127
4	68	B	105	3.6	27.2	8	25	1732	1212	433
4	68	B	105	3.6	27.2	8	40	1369	959	342
4	68	B	105	3.6	27.2	8	80	968	678	242
4	68	C	105	3.6	27.2	10	70	1134	794	283
4	100	A	105	3.6	40	8	150	658	461	165
4	100	A	105	3.6	40	8	200	570	399	143
4	100	A	105	3.6	40	10	300	465	326	116
4	100	B	105	3.6	40	8	25	1732	1212	433
4	100	B	105	3.6	40	8	40	1369	959	342
4	100	B	105	3.6	40	8	80	968	678	242
4	100	C	105	3.6	40	10	70	1134	794	283
4	150	B	105	3.6	60	8	25	1732	1212	433
4	150	B	105	3.6	60	8	40	1369	959	342
4	150	B	105	3.6	60	8	70	1035	725	259
4	150	C	105	3.6	60	8	25	1897	1328	474
4	150	C	105	3.6	60	8	45	1414	990	354
4	150	C	105	3.6	60	8	100	949	664	237
4	150	D	105	3.6	60	10	60	1323	926	331
4	150	H	105	3.6	60	10	25	2236	1565	559
4	150	H	105	3.6	60	6	45	1667	1167	417
4	220	B	105	3.6	88	8	35	1464	1025	366
4	220	B	105	3.6	88	8	70	1035	725	259
4	220	C	105	3.6	88	8	25	1897	1328	474
4	220	C	105	3.6	88	8	55	1279	895	320
4	220	D	105	3.6	88	10	25	2049	1435	512
4	220	D	105	3.6	88	10	65	1271	890	318
4	220	H	105	3.6	88	10	25	2236	1565	559
4	220	H	105	3.6	88	10	45	1667	1167	417
4	330	C	105	3.6	132	8	25	1897	1328	474
4	330	C	105	3.6	132	8	45	1414	990	354
4	330	D	105	3.6	132	10	25	2049	1435	512
4	330	D	105	3.6	132	10	60	1323	926	331
4	330	E	105	3.6	132	10	50	1581	1107	395
4	330	H	105	3.6	132	10	25	2236	1565	559
4	330	H	105	3.6	132	6	50	1581	1107	395
4	470	D	105	3.6	188	10	25	2049	1435	512
4	470	D	105	3.6	188	10	60	1323	926	331
4	470	E	105	3.6	188	10	50	1581	1107	395
4	470	H	105	3.6	188	6	25	2236	1565	559
4	470	H	105	3.6	188	6	50	1581	1107	395
4	680	D	105	3.6	272	10	25	2049	1435	512
4	680	E	105	3.6	272	10	35	1890	1323	472
4	680	E	105	3.6	272	10	50	1581	1107	395
4	680	V	105	3.6	272	10	40	1936	1356	484

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_{max} =2.2* 1.0V U_{min} =1.0* 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
6.3	10	A	105	5.7	6.3	10	120	736	515	184
6.3	10	A	105	5.7	6.3	10	250	510	357	127
6.3	10	A	105	5.7	6.3	6	300	465	326	116
6.3	15	A	105	5.7	9.5	6	300	465	326	116
6.3	15	B	105	5.7	9.5	10	90	913	639	228
6.3	22	A	105	5.7	13.9	8	90	850	595	212
6.3	22	A	105	5.7	13.9	6	300	465	326	116
6.3	22	B	105	5.7	13.9	10	90	913	639	228
6.3	22	C	105	5.7	13.9	10	70	1134	794	283
6.3	33	A	105	5.7	20.8	8	70	964	675	241
6.3	33	A	105	5.7	20.8	8	120	736	515	184
6.3	33	A	105	5.7	20.8	6	200	570	399	143
6.3	33	B	105	5.7	20.8	8	40	1369	959	342
6.3	33	B	105	5.7	20.8	10	90	913	639	228
6.3	33	B	105	5.7	20.8	6	200	612	429	153
6.3	33	C	105	5.7	20.8	10	70	1134	794	283
6.3	33	C	105	5.7	20.8	8	100	949	664	237
6.3	47	A	105	5.7	29.6	8	150	658	461	165
6.3	47	A	105	5.7	29.6	6	200	570	399	143
6.3	47	B	105	5.7	29.6	8	40	1369	959	342
6.3	47	B	105	5.7	29.6	10	90	913	639	228
6.3	47	C	105	5.7	29.6	10	70	1134	794	283
6.3	68	A	105	5.7	42.8	8	150	658	461	165
6.3	68	B	105	5.7	42.8	8	35	1464	1025	366
6.3	68	B	105	5.7	42.8	8	55	1168	817	292
6.3	68	B	105	5.7	42.8	8	80	968	678	242
6.3	68	C	105	5.7	42.8	10	70	1134	794	283
6.3	68	C	105	5.7	42.8	8	100	949	664	237
6.3	68	D	105	5.7	42.8	10	60	1323	926	331
6.3	100	A	105	5.7	63	8	70	964	675	241
6.3	100	B	105	5.7	63	8	25	1732	1212	433
6.3	100	B	105	5.7	63	8	45	1291	904	323
6.3	100	B	105	5.7	63	8	70	1035	725	259
6.3	100	C	105	5.7	63	8	25	1897	1328	474
6.3	100	C	105	5.7	63	8	45	1414	990	354
6.3	100	C	105	5.7	63	10	70	1134	794	283
6.3	100	D	105	5.7	63	10	60	1323	926	331
6.3	100	H	105	5.7	63	10	45	1667	1167	417
6.3	150	B	105	5.7	94.5	8	25	1732	1212	433
6.3	150	B	105	5.7	94.5	8	45	1291	904	323
6.3	150	B	105	5.7	94.5	8	70	1035	725	259
6.3	150	C	105	5.7	94.5	8	25	1897	1328	474
6.3	150	C	105	5.7	94.5	8	55	1279	895	320
6.3	150	D	105	5.7	94.5	10	25	2049	1435	512
6.3	150	D	105	5.7	94.5	10	60	1323	926	331
6.3	150	H	105	5.7	94.5	10	25	2236	1565	559
6.3	150	H	105	5.7	94.5	10	45	1667	1167	417
6.3	220	B	105	5.7	138.6	8	25	1732	1212	433
6.3	220	B	105	5.7	138.6	8	70	1035	725	259

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_r =2.2° 1.0V U_r =1.0° 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Rated Voltage (V)	Rated CAP (µF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(µA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
6.3	220	B	105	5.7	138.6	10	200	612	429	153
6.3	220	C	105	5.7	138.6	8	25	1897	1328	474
6.3	220	C	105	5.7	138.6	8	45	1414	990	354
6.3	220	D	105	5.7	138.6	10	40	1620	1134	405
6.3	220	D	105	5.7	138.6	10	60	1323	926	331
6.3	220	E	105	5.7	138.6	10	50	1581	1107	395
6.3	220	H	105	5.7	138.6	10	25	2236	1565	559
6.3	220	H	105	5.7	138.6	6	50	1581	1107	395
6.3	330	D	105	5.7	207.9	10	25	2049	1435	512
6.3	330	D	105	5.7	207.9	10	60	1323	926	331
6.3	330	E	105	5.7	207.9	10	50	1581	1107	395
6.3	330	H	105	5.7	207.9	10	25	2236	1565	559
6.3	330	H	105	5.7	207.9	12	50	1581	1107	395
6.3	470	D	105	5.7	296.1	10	30	1871	1310	468
6.3	470	E	105	5.7	296.1	10	35	1890	1323	472
6.3	470	E	105	5.7	296.1	10	50	1581	1107	395
6.3	470	H	105	5.7	296.1	10	35	1890	1323	472
6.3	470	H	105	5.7	296.1	10	55	1508	1055	377
6.3	470	V	105	5.7	296.1	10	40	1936	1356	484
6.3	680	E	105	5.7	428.4	10	25	2236	1565	559
10	4.7	A	105	9	4.7	10	250	510	357	127
10	6.8	A	105	9	6.8	10	180	601	421	150
10	6.8	A	105	9	6.8	10	250	510	357	127
10	10	A	105	9	10	8	80	901	631	225
10	10	A	105	9	10	8	120	736	515	184
10	10	A	105	9	10	10	300	465	326	116
10	10	B	105	9	10	10	100	866	606	217
10	15	A	105	9	15	8	80	901	631	225
10	15	A	105	9	15	6	200	570	399	143
10	15	B	105	9	15	10	90	913	639	228
10	15	C	105	9	15	10	70	1134	794	283
10	22	A	105	9	22	8	80	901	631	225
10	22	B	105	9	22	10	90	913	639	228
10	22	B	105	9	22	6	300	500	350	125
10	22	C	105	9	22	10	70	1134	794	283
10	33	B	105	9	33	8	40	1369	959	342
10	33	B	105	9	33	10	90	913	639	228
10	33	B	105	9	33	6	200	612	429	153
10	33	C	105	9	33	10	70	1134	794	283
10	33	C	105	9	33	6	100	949	664	237
10	47	B	105	9	47	8	35	1464	1025	366
10	47	B	105	9	47	8	70	1035	725	259
10	47	B	105	9	47	10	90	913	639	228
10	47	C	105	9	47	10	70	1134	794	283
10	47	C	105	9	47	8	100	949	664	237
10	68	C	105	9	68	8	45	1414	990	354
10	68	C	105	9	68	10	70	1134	794	283
10	68	D	105	9	68	6	45	1528	1069	382
10	68	D	105	9	68	10	60	1323	926	331

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_~ =2.2* 1.0V U_~ =1.0* 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @ 25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
10	68	D	105	9	68	10	60	1323	926	331
10	68	D	105	9	68	10	100	1025	717	256
10	68	H	105	9	68	10	45	1667	1167	417
10	68	H	105	9	68	10	60	1443	1010	361
10	68	H	105	9	68	10	100	1118	783	280
10	100	C	105	9	100	8	25	1897	1328	474
10	100	C	105	9	100	8	45	1414	990	354
10	100	C	105	9	100	10	70	1134	794	283
10	100	D	105	9	100	6	45	1528	1069	382
10	100	D	105	9	100	10	60	1323	926	331
10	100	D	105	9	100	10	80	1146	802	286
10	100	H	105	9	100	10	25	2236	1565	559
10	100	H	105	9	100	10	55	1508	1055	377
10	150	C	105	9	150	8	55	1279	895	320
10	150	D	105	9	150	10	25	2049	1435	512
10	150	D	105	9	150	10	40	1620	1134	405
10	150	D	105	9	150	10	60	1323	926	331
10	150	E	105	9	150	10	50	1581	1107	395
10	150	H	105	9	150	10	25	2236	1565	559
10	150	H	105	9	150	6	55	1508	1055	377
10	220	D	105	9	220	10	25	2049	1435	512
10	220	D	105	9	220	10	60	1323	926	331
10	220	E	105	9	220	10	50	1581	1107	395
10	220	H	105	9	220	10	25	2236	1565	559
10	220	H	105	9	220	6	50	1581	1107	395
10	330	E	105	9	330	10	35	1890	1323	472
10	330	E	105	9	330	10	50	1581	1107	395
10	330	V	105	9	330	10	40	1936	1356	484
16	1	B	105	12.8	1.6	10	300	500	350	125
16	1.5	B	105	12.8	2.4	10	300	500	350	125
16	2.2	B	105	12.8	3.5	10	300	500	350	125
16	3.3	A	105	12.8	5.3	10	250	510	357	127
16	3.3	B	105	12.8	5.3	10	150	707	495	177
16	3.3	B	105	12.8	5.3	10	300	500	350	125
16	4.7	A	105	12.8	7.5	10	250	510	357	127
16	4.7	B	105	12.8	7.5	10	100	866	606	217
16	4.7	B	105	12.8	7.5	10	150	707	495	177
16	4.7	B	105	12.8	7.5	10	300	500	350	125
16	4.7	C	105	12.8	7.5	10	150	775	542	194
16	6.8	A	105	12.8	10.9	6	200	570	399	143
16	6.8	B	105	12.8	10.9	10	100	866	606	217
16	6.8	B	105	12.8	10.9	10	150	707	495	177
16	6.8	B	105	12.8	10.9	10	300	500	350	125
16	6.8	C	105	12.8	10.9	10	150	775	542	194
16	10	A	105	12.8	16	6	200	570	399	143
16	10	B	105	12.8	16	10	100	866	606	217
16	10	B	105	12.8	16	6	200	612	429	153
16	10	B	105	12.8	16	10	300	500	350	125
16	10	C	105	12.8	16	10	150	775	542	194

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_{max} =2.2° 1.0V U_{min} =1.0° 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
16	15	B	105	12.8	24	10	100	866	606	217
16	15	B	105	12.8	24	6	150	707	495	177
16	15	B	105	12.8	24	10	300	500	350	125
16	15	C	105	12.8	24	10	70	1134	794	283
16	15	C	105	12.8	24	10	150	775	542	194
16	15	D	105	12.8	24	10	80	1146	802	286
16	22	B	105	12.8	35.2	6	150	707	495	177
16	22	C	105	12.8	35.2	10	70	1134	794	283
16	22	C	105	12.8	35.2	10	150	775	542	194
16	22	D	105	12.8	35.2	10	60	1323	926	331
16	22	D	105	12.8	35.2	10	80	1146	802	286
16	22	E	105	12.8	35.2	10	80	1250	875	313
16	33	C	105	12.8	52.8	10	70	1134	794	283
16	33	C	105	12.8	52.8	10	150	775	542	194
16	33	D	105	12.8	52.8	10	60	1323	926	331
16	33	D	105	12.8	52.8	10	80	1146	802	286
16	33	E	105	12.8	52.8	10	80	1250	875	313
16	33	H	105	12.8	52.8	10	45	1667	1167	417
16	33	H	105	12.8	52.8	10	70	1336	935	334
16	47	C	105	12.8	75.2	10	150	775	542	194
16	47	D	105	12.8	75.2	10	35	1732	1212	433
16	47	D	105	12.8	75.2	10	70	1225	857	306
16	47	D	105	12.8	75.2	10	90	1080	756	270
16	47	E	105	12.8	75.2	10	50	1581	1107	395
16	47	E	105	12.8	75.2	10	80	1250	875	313
16	47	H	105	12.8	75.2	10	45	1667	1167	417
16	47	H	105	12.8	75.2	10	80	1250	875	313
16	68	D	105	12.8	108.8	10	50	1449	1014	362
16	68	D	105	12.8	108.8	10	80	1146	802	286
16	68	E	105	12.8	108.8	10	50	1581	1107	395
16	68	E	105	12.8	108.8	10	80	1250	875	313
16	68	H	105	12.8	108.8	10	50	1581	1107	395
16	68	H	105	12.8	108.8	10	90	1179	825	295
16	100	D	105	12.8	160	10	60	1323	926	331
16	100	D	105	12.8	160	10	80	1146	802	286
16	100	E	105	12.8	160	6	40	1768	1237	442
16	100	E	105	12.8	160	10	80	1250	875	313
16	100	H	105	12.8	160	10	50	1581	1107	395
16	150	E	105	12.8	240	10	40	1768	1237	442
16	150	E	105	12.8	240	10	80	1250	875	313
16	150	V	105	12.8	240	10	80	1369	959	342
16	150	W	105	12.8	240	10	80	1581	1107	395
16	220	E	105	12.8	352	10	35	1890	1323	472
16	220	E	105	12.8	352	10	50	1581	1107	395
16	220	E	105	12.8	352	10	80	1250	875	313
16	220	V	105	12.8	352	10	40	1936	1356	484
16	220	V	105	12.8	352	10	80	1369	959	342
16	220	W	105	12.8	352	10	80	1581	1107	395

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_r =2.2^o 1.0V U_r~1.0^o 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
16	330	E	105	12.8	528	10	25	2236	1565	559
16	330	E	105	12.8	528	10	50	1581	1107	395
16	330	E	105	12.8	528	10	80	1250	875	313
16	330	V	105	12.8	528	10	40	1936	1356	484
16	330	V	105	12.8	528	10	80	1369	959	342
16	330	W	105	12.8	528	10	80	1581	1107	395
20	1	B	105	16	2	10	300	500	350	125
20	1.5	B	105	16	3	10	300	500	350	125
20	2.2	A	105	16	4.4	10	250	510	357	127
20	2.2	B	105	16	4.4	10	150	707	495	177
20	2.2	B	105	16	4.4	10	300	500	350	125
20	3.3	A	105	16	6.6	10	250	510	357	127
20	3.3	B	105	16	6.6	10	150	707	495	177
20	3.3	B	105	16	6.6	10	300	500	350	125
20	3.3	C	105	16	6.6	10	150	775	542	194
20	4.7	B	105	16	9.4	10	150	707	495	177
20	4.7	B	105	16	9.4	10	300	500	350	125
20	4.7	C	105	16	9.4	10	100	949	664	237
20	4.7	C	105	16	9.4	10	150	775	542	194
20	6.8	B	105	16	13.6	10	150	707	495	177
20	6.8	B	105	16	13.6	10	300	500	350	125
20	6.8	C	105	16	13.6	10	100	949	664	237
20	6.8	C	105	16	13.6	10	150	775	542	194
20	10	B	105	16	20	8	100	866	606	217
20	10	B	105	16	20	10	150	707	495	177
20	10	B	105	16	20	10	300	500	350	125
20	10	C	105	16	20	10	100	949	664	237
20	10	C	105	16	20	10	150	775	542	194
20	15	B	105	16	30	10	90	913	639	228
20	15	C	105	16	30	10	80	1061	742	265
20	15	C	105	16	30	10	150	775	542	194
20	15	D	105	16	30	10	70	1225	857	306
20	15	D	105	16	30	10	80	1146	802	286
20	22	C	105	16	44	10	100	949	664	237
20	22	C	105	16	44	10	150	775	542	194
20	22	D	105	16	44	10	60	1323	926	331
20	22	D	105	16	44	10	80	1146	802	286
20	22	E	105	16	44	10	50	1581	1107	395
20	22	E	105	16	44	10	80	1250	875	313
20	22	H	105	16	44	10	45	1667	1167	417
20	22	H	105	16	44	6	70	1336	935	334
20	22	H	105	16	44	10	90	1179	825	295
20	33	C	105	16	66	10	150	775	542	194
20	33	D	105	16	66	10	60	1323	926	331
20	33	D	105	16	66	10	80	1146	802	286
20	33	E	105	16	66	10	50	1581	1107	395
20	33	E	105	16	66	10	80	1250	875	313
20	33	H	105	16	66	6	70	1336	935	334

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_{max} =2.2* 1.0V U_{min} =1.0* 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
20	47	C	105	16	94	10	150	775	542	194
20	47	D	105	16	94	10	55	1382	967	345
20	47	D	105	16	94	10	80	1146	802	286
20	47	E	105	16	94	10	50	1581	1107	395
20	47	E	105	16	94	10	80	1250	875	313
20	47	H	105	16	94	10	55	1508	1055	377
20	47	H	105	16	94	6	70	1336	935	334
20	47	H	105	16	94	10	90	1179	825	295
20	68	D	105	16	136	6	55	1382	967	345
20	68	D	105	16	136	10	80	1146	802	286
20	68	E	105	16	136	6	45	1667	1167	417
20	68	E	105	16	136	10	80	1250	875	313
20	100	D	105	16	200	10	55	1382	967	345
20	100	E	105	16	200	6	45	1667	1167	417
20	100	E	105	16	200	10	80	1250	875	313
20	100	V	105	16	200	10	80	1369	959	342
20	150	E	105	16	300	10	80	1250	875	313
20	150	V	105	16	300	10	80	1369	959	342
20	150	W	105	16	300	10	80	1581	1107	395
20	220	E	105	16	440	10	80	1250	875	313
20	220	V	105	16	440	10	80	1369	959	342
20	220	W	105	16	440	10	80	1581	1107	395
25	0.68	B	105	20	1.7	10	300	500	350	125
25	1	B	105	20	2.5	10	300	500	350	125
25	1.5	B	105	20	3.8	10	300	500	350	125
25	1.5	C	105	20	3.8	10	150	775	542	194
25	2.2	B	105	20	5.5	10	250	548	383	137
25	2.2	B	105	20	5.5	10	300	500	350	125
25	2.2	C	105	20	5.5	10	100	949	664	237
25	2.2	C	105	20	5.5	10	150	775	542	194
25	3.3	B	105	20	8.3	10	250	548	383	137
25	3.3	B	105	20	8.3	10	300	500	350	125
25	3.3	C	105	20	8.3	10	100	949	664	237
25	3.3	C	105	20	8.3	10	150	775	542	194
25	4.7	B	105	20	11.8	6	150	707	495	177
25	4.7	B	105	20	11.8	10	250	548	383	137
25	4.7	B	105	20	11.8	10	300	500	350	125
25	4.7	C	105	20	11.8	10	100	949	664	237
25	4.7	C	105	20	11.8	10	150	775	542	194
25	6.8	B	105	20	17	6	90	913	639	228
25	6.8	B	105	20	17	6	150	707	495	177
25	6.8	B	105	20	17	10	300	500	350	125
25	6.8	C	105	20	17	10	100	949	664	237
25	6.8	C	105	20	17	10	150	775	542	194
25	10	B	105	20	25	8	100	866	606	217
25	10	B	105	20	25	6	150	707	495	177
25	10	B	105	20	25	10	300	500	350	125
25	10	C	105	20	25	10	100	949	664	237
25	10	C	105	20	25	10	150	775	542	194
25	10	D	105	20	25	10	90	1080	756	270

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_~ =2.2° 1.0V U₋ =1.0° 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
25	15	B	105	20	37.5	6	100	866	606	217
25	15	B	105	20	37.5	6	150	707	495	177
25	15	C	105	20	37.5	10	150	775	542	194
25	15	D	105	20	37.5	10	90	1080	756	270
25	15	E	105	20	37.5	10	80	1250	875	313
25	15	H	105	20	37.5	10	90	1179	825	295
25	22	B	105	20	55	6	150	707	495	177
25	22	C	105	20	55	6	100	949	664	237
25	22	C	105	20	55	10	150	775	542	194
25	22	D	105	20	55	6	60	1323	926	331
25	22	D	105	20	55	10	80	1146	802	286
25	22	D	105	20	55	6	100	1025	717	256
25	22	E	105	20	55	10	80	1250	875	313
25	22	H	105	20	55	10	60	1443	1010	361
25	22	H	105	20	55	10	90	1179	825	295
25	33	D	105	20	82.5	10	60	1323	926	331
25	33	D	105	20	82.5	10	80	1146	802	286
25	33	D	105	20	82.5	6	100	1025	717	256
25	33	E	105	20	82.5	10	80	1250	875	313
25	33	H	105	20	82.5	10	60	1443	1010	361
25	33	H	105	20	82.5	6	100	1118	783	280
25	47	D	105	20	117.5	6	60	1323	926	331
25	47	D	105	20	117.5	10	80	1146	802	286
25	47	D	105	20	117.5	6	100	1025	717	256
25	47	E	105	20	117.5	6	50	1581	1107	395
25	47	E	105	20	117.5	10	80	1250	875	313
25	68	D	105	20	170	10	80	1146	802	286
25	68	E	105	20	170	6	50	1581	1107	395
25	68	E	105	20	170	10	80	1250	875	313
25	68	V	105	20	170	10	80	1369	959	342
25	100	E	105	20	250	10	60	1443	1010	361
25	100	E	105	20	250	10	80	1250	875	313
25	100	V	105	20	250	10	80	1369	959	342
25	100	W	105	20	250	10	80	1581	1107	395
25	150	V	105	20	375	10	80	1369	959	342
25	150	W	105	20	375	10	80	1581	1107	395
35	0.68	B	105	28	2.4	10	350	463	324	116
35	1	B	105	28	3.5	10	350	463	324	116
35	1.5	B	105	28	5.3	6	200	612	429	153
35	1.5	B	105	28	5.3	10	350	463	324	116
35	1.5	C	105	28	5.3	10	200	671	470	168
35	2.2	B	105	28	7.7	6	200	612	429	153
35	2.2	B	105	28	7.7	10	350	463	324	116
35	2.2	C	105	28	7.7	10	200	671	470	168
35	3.3	B	105	28	11.6	6	200	612	429	153
35	3.3	B	105	28	11.6	10	350	463	324	116
35	3.3	C	105	28	11.6	10	200	671	470	168
35	4.7	B	105	28	16.5	6	200	612	429	153
35	4.7	B	105	28	16.5	10	350	463	324	116
35	4.7	C	105	28	16.5	10	200	671	470	168

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_~ =2.2° 1.0V U_~ =1.0° 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
35	6.8	C	105	28	23.8	10	200	671	470	168
35	6.8	D	105	28	23.8	10	90	1080	756	270
35	10	B	105	28	35	6	200	612	429	153
35	10	C	105	28	35	10	200	671	470	168
35	10	D	105	28	35	10	90	1080	756	270
35	10	E	105	28	35	10	90	1179	825	295
35	10	H	105	28	35	6	70	1336	935	334
35	10	H	105	28	35	10	120	1021	714	255
35	15	C	105	28	52.5	6	200	671	470	168
35	15	D	105	28	52.5	6	70	1225	857	306
35	15	D	105	28	52.5	6	100	1025	717	256
35	15	E	105	28	52.5	10	90	1179	825	295
35	15	H	105	28	52.5	10	100	1118	783	280
35	15	H	105	28	52.5	10	125	1000	700	250
35	22	D	105	28	77	6	70	1225	857	306
35	22	D	105	28	77	6	100	1025	717	256
35	22	E	105	28	77	10	90	1179	825	295
35	33	D	105	28	115.5	10	65	1271	890	318
35	33	D	105	28	115.5	6	100	1025	717	256
35	33	E	105	28	115.5	6	55	1508	1055	377
35	33	E	105	28	115.5	6	70	1336	935	334
35	33	E	105	28	115.5	10	90	1179	825	295
35	33	V	105	28	115.5	10	90	1291	904	323
35	47	E	105	28	164.5	10	30	2041	1429	510
35	47	E	105	28	164.5	6	55	1508	1055	377
35	47	E	105	28	164.5	10	90	1179	825	295
35	47	V	105	28	164.5	10	90	1291	904	323
35	47	W	105	28	164.5	10	90	1491	1043	373
35	68	W	105	28	238	10	90	1491	1043	373
50	0.68	B	105	40	3.4	10	350	463	324	116
50	0.68	B	105	40	3.4	6	400	433	303	108
50	1	B	105	40	5	6	300	500	350	125
50	1	B	105	40	5	10	350	463	324	116
50	1.5	B	105	40	7.5	6	300	500	350	125
50	1.5	B	105	40	7.5	10	350	463	324	116
50	1.5	C	105	40	7.5	10	200	671	470	168
50	1.5	C	105	40	7.5	6	300	548	383	137
50	2.2	B	105	40	11	10	350	463	324	116
50	2.2	C	105	40	11	10	200	671	470	168
50	2.2	C	105	40	11	6	300	548	383	137
50	3.3	C	105	40	16.5	10	200	671	470	168
50	3.3	D	105	40	16.5	10	100	1025	717	256
50	4.7	C	105	40	23.5	10	200	671	470	168
50	4.7	D	105	40	23.5	10	100	1025	717	256
50	6.8	C	105	40	34	10	200	671	470	168
50	6.8	D	105	40	34	10	70	1225	857	306
50	6.8	D	105	40	34	10	100	1025	717	256
50	6.8	D	105	40	34	10	120	935	655	234
50	6.8	H	105	40	34	10	70	1336	935	334
50	6.8	H	105	40	34	10	90	1179	825	295

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_~ =2.2° 1.0V U_~ =1.0° 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
4. Special size and demand could consult with us.

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Solid Polymer Tantalum Capacitors

Rated Voltage (V)	Rated CAP (μF)	Case Code	Category Temp (°C)	Category Voltage (V)	Max DCL(μA) @25°C	Max DF(%) @25°C 100Hz	Max ESR (mΩ) @25°C 100KHz	100kHz RMS Current (mA)		
								45°C	85°C	105°C
50	10	D	105	40	50	10	90	1080	756	270
50	10	D	105	40	50	10	120	935	655	234
50	10	E	105	40	50	6	70	1336	935	334
50	10	E	105	40	50	10	100	1118	783	280
50	15	E	105	40	75	6	70	1336	935	334
50	15	E	105	40	75	10	100	1118	783	280
50	15	V	105	40	75	10	100	1225	857	306
50	22	E	105	40	110	10	75	1291	904	323
50	22	E	105	40	110	10	100	1118	783	280
50	22	V	105	40	110	10	100	1225	857	306
50	22	W	105	40	110	10	100	1414	990	354
50	33	E	105	40	165	10	75	1291	904	323
50	33	V	105	40	165	10	100	1225	857	306
50	33	W	105	40	165	10	100	1414	990	354
50	47	W	105	40	235	10	100	1414	990	354
63	1	B	105	50.4	6.3	8	300	500	350	125
63	1	C	105	50.4	6.3	10	200	671	470	168
63	1	C	105	50.4	6.3	6	300	548	383	137
63	1	D	105	50.4	6.3	10	120	935	655	234
63	1.5	C	105	50.4	9.5	10	200	671	470	168
63	1.5	C	105	50.4	9.5	6	300	548	383	137
63	1.5	D	105	50.4	9.5	10	120	935	655	234
63	2.2	C	105	50.4	13.9	10	200	671	470	168
63	2.2	D	105	50.4	13.9	10	120	935	655	234
63	3.3	C	105	50.4	20.8	10	200	671	470	168
63	3.3	D	105	50.4	20.8	10	120	935	655	234
63	4.7	C	105	50.4	29.6	6	200	671	470	168
63	4.7	D	105	50.4	29.6	10	75	1183	828	296
63	4.7	D	105	50.4	29.6	10	120	935	655	234
63	4.7	D	105	50.4	29.6	10	300	592	414	148
63	4.7	E	105	50.4	29.6	10	120	1021	714	255
63	6.8	D	105	50.4	42.8	10	120	935	655	234
63	6.8	E	105	50.4	42.8	6	100	1118	783	280
63	6.8	E	105	50.4	42.8	6	150	913	639	228
63	10	D	105	50.4	63	10	120	935	655	234
63	10	E	105	50.4	63	10	50	1581	1107	395
63	10	E	105	50.4	63	6	100	1118	783	280
63	10	E	105	50.4	63	6	150	913	639	228
63	15	E	105	50.4	94.5	10	35	1890	1323	472
63	15	E	105	50.4	94.5	10	120	1021	714	255
63	15	E	105	50.4	94.5	10	150	913	639	228
63	15	V	105	50.4	94.5	10	120	1118	783	280
63	22	W	105	50.4	138.6	10	120	1291	904	323

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U_{DC} =2.2* 1.0V U_{AC}=1.0* 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +105 The DCL parameter should be read after 5 minutes when it connected to the circuit
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Land Dimension / Courtyard

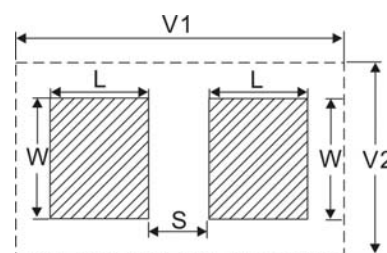
Case Code	Density Level A: Maximum (Most) Land Protrusion (mm)					Density Level B : Median (Nominal) Land Protrusion (mm)					Density Level C: Minimum (Least) Land Protrusion (mm)				
	W	L	S	V1	V2	W	L	S	V1	V2	W	L	S	V1	V2
A	1.35	2.20	0.62	6.02	2.8	1.23	1.8	0.82	4.92	2.3	1.13	1.42	0.98	4.06	2.04
B	2.35	2.21	0.92	6.32	4.0	2.23	1.8	1.12	5.22	3.5	2.13	1.42	1.28	4.36	3.24
C	2.35	2.77	2.37	8.92	4.5	2.23	2.37	2.57	7.82	4	2.13	1.99	2.73	6.96	3.74
D	2.55	2.77	3.67	10.22	5.6	2.43	2.37	3.87	9.12	5.1	2.33	1.99	4.03	8.26	4.84
E	2.55	2.77	3.67	10.22	5.6	2.43	2.37	3.87	9.12	5.1	2.33	1.99	4.03	8.26	4.84

Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

Density Level B: For products with a moderate level of component density. Provides a robust solder attachment condition for reflow solder processes.

Density Level C: For high component density product applications. Before adapting the minimum land pattern variations the user should perform qualification testing based on the conditions outlined in IPC standard 7351 (IPC-7351).

- 1 Height of these chips may create problems in wave soldering.
- 2 Land pattern geometry is too small for silkscreen outline.



Surface Mount Footprints

Soldering Process

Kingtronics tantalum capacitors are compatible with wave (single or dual), convection, IR, or vapor phase reflow techniques. Preheating of these components is recommended to avoid extreme thermal stress.

Kingtronics's recommended profile conditions for convection and IR reflow reflect the profile conditions of the IPC/J STD 020D standard for moisture sensitivity testing. The devices can safely withstand a maximum of three reflow passes at these conditions.

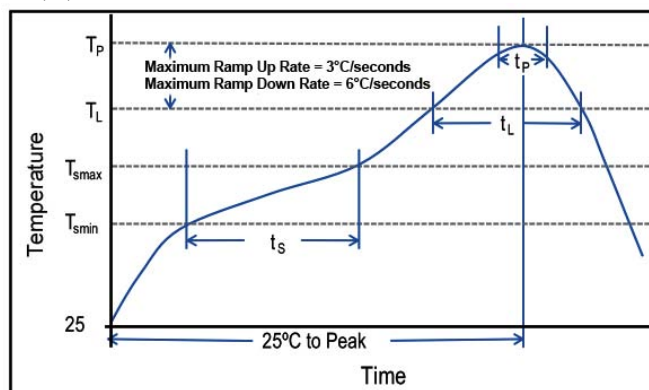
Hand soldering should be performed with care due to the difficulty in process control. If performed, care should be taken to avoid contact of the soldering iron to the molded case. The iron should be used to heat the solder pad, applying solder between the pad and the termination, until reflow occurs. Once reflow occurs, the iron should be removed immediately. "Wiping" the edges of a chip and heating the top surface is not recommended.

During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

Profile Feature	SnPb Assembly	Pb-Free Assembly
Preheat/Soak		
Temperature Minimum (T_{smin})	100°C	150°C
Temperature Maximum (T_{smax})	150°C	200°C
Time (ts) from T_{smin} to T_{smax}	60 – 120 seconds	60 – 120 seconds
Ramp-up Rate (T_L to T_P)	3°C/seconds maximum	3°C/seconds maximum
Liquidous Temperature (T_L)	183°C	217°C
Time Above Liquidous (t_L)	60 – 150 seconds	60 – 150 seconds
Peak Temperature (T_P)	220°C* , 235°C**	250°C* , 260°C**
Time within 5°C of Maximum Peak Temperature (tP)	20 seconds maximum	30 seconds maximum
Ramp-down Rate (T_P to T_L)	6°C/seconds maximum	6°C/seconds maximum
Time 25°C to Peak Temperature	6 minutes maximum	8 minutes maximum

Note: All temperatures refer to the center of the package, measured on the package body surface that is facing up during assembly reflow.

*Case Size D, E**Case Size A, B, C



Recommended Reflow Profile

Kingtronics® International Company

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Solid Polymer Tantalum Capacitors

How To Order

<u>PKT</u>	<u>0R1</u>	<u>M</u>	<u>350</u>	<u>A</u>	<u>T</u>	<u>R</u>
<u>Series</u>	<u>1.</u>	<u>2.</u>	<u>3.</u>	<u>4.</u>	<u>5.</u>	<u>6.</u>

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	M
Tolerance	±20%

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.

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