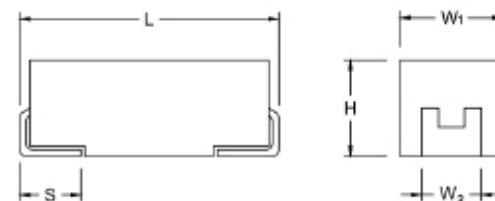
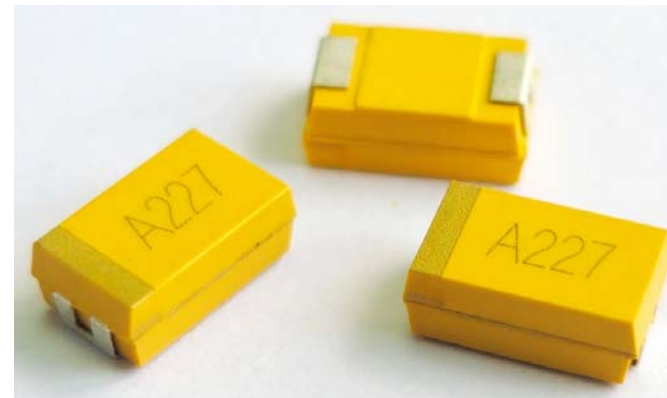


CA45 SERIES

Standard Chip Tantalum Capacitors

Features

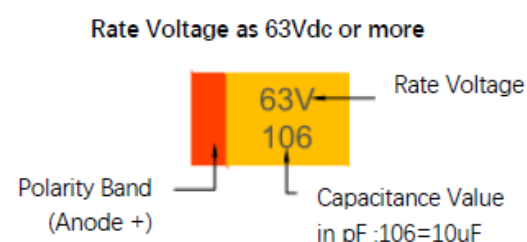
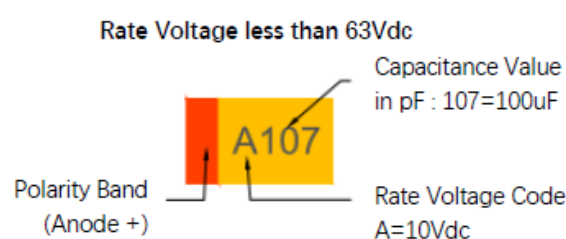
- Epoxy molded encapsulation, Chip, Easy for integration, Polarized;
- Small in size, Light in weight, Stable in electrical & storage performances , Long life-span, High reliability;
- Typical applications include decoupling and filtering in industrial and automotive end applications such as DC/DC converters , portable electronics , telecommunications , and control units;
- Operative Standard: QJ/PWV109-2003;



Dimensions(mm)

Case Code	EIA Code	EIA Metric	L	W ₁	H	W ₂	S
A	1206	3216-16	3.20±0.20	1.60±0.20	1.60±0.20	0.80±0.20	1.20±0.20
B	1210	3528-19	3.50±0.20	2.80±0.20	1.90±0.20	0.80±0.20	2.20±0.20
C	2312	6032-25	6.00±0.20	3.20±0.20	2.50±0.20	1.30±0.20	2.20±0.20
D	2917	7343-28	7.30±0.20	4.30±0.20	2.80±0.20	1.30±0.20	2.40±0.20
E	2917	7343-43	7.30±0.40	4.30±0.40	4.10±0.40	1.30±0.20	2.40±0.20
V	2924	7361-36	7.30±0.40	6.10±0.40	3.60±0.40	1.35±0.20	3.00±0.20
W	2924	7361-41	7.30±0.40	6.10±0.40	4.10±0.40	1.35±0.20	3.00±0.20
G	3329	8575-45	8.50±0.40	7.50±0.40	4.50±0.40	1.80±0.20	4.50±0.20
S	4335	11090-45	11.0±0.40	9.00±0.40	4.50±0.40	1.50±0.20	7.00±0.20
T	4349	110125-55	11.0±0.40	12.5±0.40	5.50±0.40	1.50±0.20	10.5±0.20

Marking



How to order

XRCA45	107	K	060	B	T	-	LF
Model	Capacity Code	Capacity Tolerance	DC rated voltage	Case Size	Package	Separator	Lead Free
		K=±10%	040= 4Vdc		T=Reel		
		M=±20%	060 = 6.3Vdc				
			100 = 10Vdc				
			160 = 16Vdc				
			250 =25Vdc				

Environmental

RoHS declaration (6/6) complies with the requirements of Directive 2002/95/EC, which stipulates the use of 100% Sn solder, gold plated or non-magnetic 100% Sn solder



Technical Characteristics

Technical Data													All technical data relate to an ambient temperature of +25℃												
Capacitance Range	0.10 μ F ~1000 μ F																								
Capacitance Tolerance	±10%; ±20%;																								
Rated Voltage (VR)≤+85℃:	2.5	4	6.3	10	16	20	25	35	50	63	75	100													
Category Voltage(VC)≤+125℃:	1.7	2.7	4	6.3	10	15	17	23	33	40	50	63													
Surge Voltage (VS)≤+85℃:	3.3	5.2	8	13	20	26	32	46	65	82	97	130													
Surge Voltage (VS)≤+125℃:	2.2	3.4	5	8	13	16	20	28	40	50	60	80													
Temperature Range	-55℃ to +125℃																								
Termination Finished	Tin coating (standard), gold coating or tin lead coating require additional requirements																								

Application

Automotive Electronics	DC/DC Converter	Filter Circuits	Telecom Infrastucture

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Rated Voltage (V)	2.5	4	6.3	10	16	20	25	35	50	63
Capacitance (μF)	Case Code									
0.47								A	A	
0.68								A	A	
1								A/B	A/B	C
1.5								A/B	B/C	D
2.2							A	A/B	B/C/D	D
3.3						A	A/B/C	B/C	C/D	D
4.7						A	A/B/C	B/C/D	C/D	E
6.8					A	A/B/C	B/C/D	B/C/D	C/D/E	E
10				A	A/B	A/B/C	B/C/D	C/D/E	D/E/V	E/W
15				A	A/B/C	B/C/D	C/D	C/D/E	D/E/V	E/V/W
22			A	A/B	A/B/C	B/C/D	C/D	C/D/E	E/V	V/W/G
33			A	A/B/C	B/C/D	C/D	D/E	D/E	W/G	T
47		A	A/B	A/B/C	C/D	C/D/E	D/E	D/E/V	S/T	T
68		A	A/B/C	B/C/D	C/D	C/D/E	D/E	E/V	T	T
100		A/B	A/B/C	B/C/D	C/D/E	D/E/V	E/V/W	G/S/T	T	
150		B/C/D	B/C/D	C/D/E	D/E/V	D/E/V	E/V	T		
220		B/C/D	B/C/D/E	C/D/E	D/E/V	E/V/W	G/S			
330		C/D	C/D/E	D/E/V	E/V/W	E/V	T			
470		C/D/E	D/E/V	E/V	E/W	T				
680	C/D/E	D/E	E/V/W	E/S/T	T					
1000	D/E	D/E/V	E/V/G	T						
1500	D/E/V	E/V	T							
2200	V									

RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45687K020CT-LF	2.5	680	C	85	1.7	125	17.0	18	0.2	0.671	0.402	0.268
XRCA45687K020DT-LF	2.5	680	D	85	1.7	125	17.0	16	0.2	0.725	0.435	0.290
XRCA45687K020ET-LF	2.5	680	E	85	1.7	125	17.0	10	0.2	0.791	0.474	0.316
XRCA45108K020DT-LF	2.5	1000	D	85	1.7	125	25.0	20	0.2	0.725	0.435	0.290
XRCA45108K020ET-LF	2.5	1000	E	85	1.7	125	25.0	14	0.2	0.791	0.474	0.316
XRCA45158K020DT-LF	2.5	1500	D	85	1.7	125	37.5	60	0.2	0.725	0.435	0.290
XRCA45158K020ET-LF	2.5	1500	E	85	1.7	125	37.5	20	0.2	0.791	0.474	0.316
XRCA45158K020VT-LF	2.5	1500	V	85	1.7	125	37.5	20	0.2	0.866	0.520	0.346
XRCA45228K020VT-LF	2.5	2200	V	85	1.7	125	55.0	50	0.2	0.866	0.520	0.346
XRCA45476K040AT-LF	4	47	A	85	2.7	125	1.9	11	8	0.090	0.054	0.036
XRCA45686K040AT-LF	4	68	A	85	2.7	125	2.7	24	2.5	0.161	0.097	0.064
XRCA45107K040AT-LF	4	100	A	85	2.7	125	4.0	30	2	0.180	0.108	0.072
XRCA45107K040BT-LF	4	100	B	85	2.7	125	4.0	12	0.9	0.289	0.173	0.115
XRCA45157K040BT-LF	4	150	B	85	2.7	125	6.0	10	1.5	0.224	0.134	0.089
XRCA45157K040CT-LF	4	150	C	85	2.7	125	6.0	6	0.3	0.548	0.329	0.219
XRCA45157K040DT-LF	4	150	D	85	2.7	125	6.0	8	0.8	0.362	0.217	0.145
XRCA45227K040BT-LF	4	220	B	85	2.7	125	8.8	18	1	0.274	0.164	0.110
XRCA45227K040CT-LF	4	220	C	85	2.7	125	8.8	12	1.1	0.286	0.172	0.114
XRCA45227K040DT-LF	4	220	D	85	2.7	125	8.8	8	0.8	0.362	0.217	0.145
XRCA45337K040CT-LF	4	330	C	85	2.7	125	13.2	10	0.9	0.316	0.190	0.126
XRCA45337K040DT-LF	4	330	D	85	2.7	125	13.2	8	0.7	0.387	0.232	0.155
XRCA45477K040CT-LF	4	470	C	85	2.7	125	18.8	14	0.5	0.424	0.255	0.170
XRCA45477K040DT-LF	4	470	D	85	2.7	125	18.8	8	0.5	0.458	0.275	0.183
XRCA45477K040ET-LF	4	470	E	85	2.7	125	18.8	10	0.5	0.500	0.300	0.200
XRCA45687K040DT-LF	4	680	D	85	2.7	125	27.2	12	0.5	0.458	0.275	0.183
XRCA45687K040ET-LF	4	680	E	85	2.7	125	27.2	14	0.9	0.373	0.224	0.149
XRCA45108K040DT-LF	4	1000	D	85	2.7	125	40.0	60	0.3	0.592	0.355	0.237
XRCA45108K040ET-LF	4	1000	E	85	2.7	125	40.0	14	0.3	0.645	0.387	0.258
XRCA45108K040VT-LF	4	1000	V	85	2.7	125	40.0	12	0.2	0.866	0.520	0.346
XRCA45158K040ET-LF	4	1500	E	85	2.7	125	60.0	30	0.2	0.791	0.474	0.316
XRCA45158K040VT-LF	4	1500	V	85	2.7	125	60.0	30	0.2	0.866	0.520	0.346
XRCA45226K060AT-LF	6.3	22	A	85	4	125	1.4	6	3	0.147	0.088	0.059
XRCA45336K060AT-LF	6.3	33	A	85	4	125	2.1	8	2.2	0.172	0.103	0.069
XRCA45476K060AT-LF	6.3	47	A	85	4	125	3.0	12	2.5	0.161	0.097	0.064

- # To complete part number , insert K for ±10% or M for ±20% .Designates capacitance tolerance.
- Please do not use multimeter through the measuring procedures.
- 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.
- Voltage derating is applied at +125°C. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- Special size and demand could consult with us.

RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45476K060BT-LF	6.3	47	B	85	4	125	3.0	6	1	0.274	0.164	0.110
XRCA45686K060AT-LF	6.3	68	A	85	4	125	4.3	20	4	0.127	0.076	0.051
XRCA45686K060BT-LF	6.3	68	B	85	4	125	4.3	8	0.9	0.289	0.173	0.115
XRCA45686K060CT-LF	6.3	68	C	85	4	125	4.3	6	1.2	0.274	0.164	0.110
XRCA45107K060AT-LF	6.3	100	A	85	4	125	6.3	35	2	0.180	0.108	0.072
XRCA45107K060BT-LF	6.3	100	B	85	4	125	6.3	12	1.7	0.210	0.126	0.084
XRCA45107K060CT-LF	6.3	100	C	85	4	125	6.3	8	0.9	0.316	0.190	0.126
XRCA45157K060BT-LF	6.3	150	B	85	4	125	9.5	10	1.2	0.250	0.150	0.100
XRCA45157K060CT-LF	6.3	150	C	85	4	125	9.5	8	1.2	0.274	0.164	0.110
XRCA45157K060DT-LF	6.3	150	D	85	4	125	9.5	8	0.7	0.387	0.232	0.155
XRCA45227K060BT-LF	6.3	220	B	85	4	125	13.9	30	1.2	0.250	0.150	0.100
XRCA45227K060CT-LF	6.3	220	C	85	4	125	13.9	10	0.7	0.359	0.215	0.143
XRCA45227K060CT-LF	6.3	220	D	85	4	125	13.9	8	0.4	0.512	0.307	0.205
XRCA45227K060ET-LF	6.3	220	E	85	4	125	13.9	8	0.4	0.559	0.335	0.224
XRCA45337K060CT-LF	6.3	330	C	85	4	125	20.8	12	0.5	0.424	0.255	0.170
XRCA45337K060DT-LF	6.3	330	D	85	4	125	20.8	8	0.4	0.512	0.307	0.205
XRCA45337K060ET-LF	6.3	330	E	85	4	125	20.8	8	0.4	0.559	0.335	0.224
XRCA45477K060DT-LF	6.3	470	D	85	4	125	29.6	12	0.3	0.592	0.355	0.237
XRCA45477K060ET-LF	6.3	470	E	85	4	125	29.6	10	0.4	0.559	0.335	0.224
XRCA45477K060VT-LF	6.3	470	V	85	4	125	29.6	10	0.4	0.612	0.367	0.245
XRCA45687K060ET-LF	6.3	680	E	85	4	125	42.8	10	0.5	0.500	0.300	0.200
XRCA45687K060VT-LF	6.3	680	V	85	4	125	42.8	10	0.5	0.548	0.329	0.219
XRCA45687K060WT-LF	6.3	680	W	85	4	125	42.8	12	0.2	1.000	0.600	0.400
XRCA45108K060ET-LF	6.3	1000	E	85	4	125	63.0	20	0.2	0.791	0.474	0.316
XRCA45108K060VT-LF	6.3	1000	V	85	4	125	63.0	15	0.2	0.866	0.520	0.346
XRCA45108K060GW-LF	6.3	1000	G	85	4	125	63.0	16	0.2	1.095	0.657	0.438
XRCA45158K060TW-LF	6.3	1500	T	85	4	125	94.5	16	0.2	1.285	0.771	0.514
XRCA45106K100AT-LF	10	10	A	85	6.3	125	1.0	6	3	0.147	0.088	0.059
XRCA45156K100AT-LF	10	15	A	85	6.3	125	1.5	6	3.2	0.143	0.086	0.057
XRCA45226K100AT-LF	10	22	A	85	6.3	125	2.2	10	3	0.147	0.088	0.059
XRCA45226K100BT-LF	10	22	B	85	6.3	125	2.2	6	1.9	0.199	0.119	0.079
XRCA45336K100AT-LF	10	33	A	85	6.3	125	3.3	15	1.7	0.196	0.117	0.078
XRCA45336K100BT-LF	10	33	B	85	6.3	125	3.3	6	1.8	0.204	0.122	0.082
XRCA45336K100CT-LF	10	33	C	85	6.3	125	3.3	6	1.5	0.245	0.147	0.098

- # To complete part number , insert K for ±10% or M for ±20% .Designates capacitance tolerance.
- Please do not use multimeter through the measuring procedures.
- Capacitance and DF measured at :100Hz, U₂=2.2~-1.0V, U₁~1.0~-0.5V, Frequency=100Hz.Test only applied in series equivalent circuit.
- Voltage derating is applied at +125°C. (The DCL parameter should be read after 5 minutes when it connected to the circuit) .
- Special size and demand could consult with us.

RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45476K100AT-LF	10	47	A	85	6.3	125	4.7	40	2	0.180	0.108	0.072
XRCA45476K100BT-LF	10	47	B	85	6.3	125	4.7	8	1	0.274	0.164	0.110
XRCA45476K100CT-LF	10	47	C	85	6.3	125	4.7	6	0.9	0.316	0.190	0.126
XRCA45686K100BT-LF	10	68	B	85	6.3	125	6.8	6	1.4	0.231	0.139	0.093
XRCA45686K100CT-LF	10	68	C	85	6.3	125	6.8	6	0.8	0.335	0.201	0.134
XRCA45686K100DT-LF	10	68	D	85	6.3	125	6.8	6	0.8	0.362	0.217	0.145
XRCA45107K100BT-LF	10	100	B	85	6.3	125	10.0	18	1.4	0.231	0.139	0.093
XRCA45107K100CT-LF	10	100	C	85	6.3	125	10.0	8	1	0.300	0.180	0.120
XRCA45107K100DT-LF	10	100	D	85	6.3	125	10.0	8	0.7	0.387	0.232	0.155
XRCA45157K100CT-LF	10	150	C	85	6.3	125	15.0	8	0.9	0.316	0.190	0.126
XRCA45157K100DT-LF	10	150	D	85	6.3	125	15.0	8	0.6	0.418	0.251	0.167
XRCA45157K100ET-LF	10	150	E	85	6.3	125	15.0	8	0.9	0.373	0.224	0.149
XRCA45227K100CT-LF	10	220	C	85	6.3	125	22.0	16	0.9	0.316	0.190	0.126
XRCA45227K100DT-LF	10	220	D	85	6.3	125	22.0	8	0.5	0.458	0.275	0.183
XRCA45227K100ET-LF	10	220	E	85	6.3	125	22.0	8	0.5	0.500	0.300	0.200
XRCA45337K100DT-LF	10	330	D	85	6.3	125	33.0	10	0.5	0.458	0.275	0.183
XRCA45337K100ET-LF	10	330	E	85	6.3	125	33.0	8	0.9	0.373	0.224	0.149
XRCA45337K100VT-LF	10	330	V	85	6.3	125	33.0	10	0.5	0.548	0.329	0.219
XRCA45477K100ET-LF	10	470	E	85	6.3	125	47.0	10	0.5	0.500	0.300	0.200
XRCA45477K100VT-LF	10	470	V	85	6.3	125	47.0	10	0.2	0.866	0.520	0.346
XRCA45687K100ET-LF	10	680	E	85	6.3	125	68.0	14	0.5	0.500	0.300	0.200
XRCA45687K100SW-LF	10	680	S	85	6.3	125	68.0	12	0.2	1.183	0.710	0.473
XRCA45687K100TW-LF	10	680	T	85	6.3	125	68.0	12	0.2	1.285	0.771	0.514
XRCA45108K100TW-LF	10	1000	T	85	6.3	125	100.0	16	0.2	1.285	0.771	0.514
XRCA45685K160AT-LF	16	6.8	A	85	10	125	1.1	6	3.5	0.136	0.082	0.055
XRCA45106K160AT-LF	16	10	A	85	10	125	1.6	6	3	0.147	0.088	0.059
XRCA45106K160AT-LF	16	10	B	85	10	125	1.6	6	2.5	0.173	0.104	0.069
XRCA45156K160AT-LF	16	15	A	85	10	125	2.4	6	2	0.180	0.108	0.072
XRCA45156K160BT-LF	16	15	B	85	10	125	2.4	6	2	0.194	0.116	0.077
XRCA45156K160CT-LF	16	15	C	85	10	125	2.4	6	1.8	0.224	0.134	0.089
XRCA45226K160AT-LF	16	22	A	85	10	125	3.5	15	3	0.147	0.088	0.059
XRCA45226K160BT-LF	16	22	B	85	10	125	3.5	6	2.2	0.185	0.111	0.074
XRCA45226K160CT-LF	16	22	C	85	10	125	3.5	6	1.5	0.245	0.147	0.098
XRCA45336K160BT-LF	16	33	B	85	10	125	5.3	8	2	0.194	0.116	0.077

- # is a replacement character used to represent the capacity tolerance. Fill in K for ± 10% and M for ± 20%;
- Please do not use a multimeter to measure;
- Capacity and loss measurement conditions: 100Hz, U_r=2.2 0-1V, U_~=1.00 V, Frequency=100Hz, measured in series
- If the ambient temperature is higher than +8 °C, the rated voltage needs to be reduced for use (The leakage current parameter is the reading after 5 minutes of power on)
- For special sizes or requirements, please contact us.

RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45336K160CT-LF	16	33	C	85	10	125	5.3	6	1.2	0.274	0.164	0.110
XRCA45336K160DT-LF	16	33	D	85	10	125	5.3	6	0.8	0.362	0.217	0.145
XRCA45476K160CT-LF	16	47	C	85	10	125	7.5	6	1	0.300	0.180	0.120
XRCA45476K160DT-LF	16	47	D	85	10	125	7.5	6	0.9	0.342	0.205	0.137
XRCA45686K160CT-LF	16	68	C	85	10	125	10.9	6	1.2	0.274	0.164	0.110
XRCA45686K160DT-LF	16	68	D	85	10	125	10.9	6	0.6	0.418	0.251	0.167
XRCA45107K160CT-LF	16	100	C	85	10	125	16.0	8	1	0.300	0.180	0.120
XRCA45107K160DT-LF	16	100	D	85	10	125	16.0	6	0.6	0.418	0.251	0.167
XRCA45107K160ET-LF	16	100	E	85	10	125	16.0	6	0.9	0.373	0.224	0.149
XRCA45157K160DT-LF	16	150	D	85	10	125	24.0	6	0.7	0.387	0.232	0.155
XRCA45157K160ET-LF	16	150	E	85	10	125	24.0	8	0.5	0.500	0.300	0.200
XRCA45157K160VT-LF	16	150	V	85	10	125	24.0	8	0.5	0.548	0.329	0.219
XRCA45227K160DT-LF	16	220	D	85	10	125	35.2	15	0.9	0.342	0.205	0.137
XRCA45227K160ET-LF	16	220	E	85	10	125	35.2	10	0.5	0.500	0.300	0.200
XRCA45227K160VT-LF	16	220	V	85	10	125	35.2	8	0.5	0.548	0.329	0.219
XRCA45337K160ET-LF	16	330	E	85	10	125	52.8	12	0.8	0.395	0.237	0.158
XRCA45337K160VT-LF	16	330	V	85	10	125	52.8	12	0.8	0.433	0.260	0.173
XRCA45337K160WT-LF	16	330	W	85	10	125	52.8	10	0.2	1.000	0.600	0.400
XRCA45477K160ET-LF	16	470	E	85	10	125	75.2	16	0.8	0.395	0.237	0.158
XRCA45477K160WT-LF	16	470	W	85	10	125	75.2	12	0.2	1.000	0.600	0.400
XRCA45687K160TW-LF	16	680	T	85	10	125	108.8	12	0.1	1.817	1.090	0.727
XRCA45335K200AT-LF	20	3.3	A	85	15	125	0.7	4	4.5	0.120	0.072	0.048
XRCA45475K200AT-LF	20	4.7	A	85	15	125	0.9	6	3	0.147	0.088	0.059
XRCA45685K200AT-LF	20	6.8	A	85	15	125	1.4	6	2.4	0.165	0.099	0.066
XRCA45685K200BT-LF	20	6.8	B	85	15	125	1.4	6	2.4	0.177	0.106	0.071
XRCA45685K200CT-LF	20	6.8	C	85	15	125	1.4	6	1.9	0.218	0.131	0.087
XRCA45106K200AT-LF	20	10	A	85	15	125	2.0	8	5	0.114	0.068	0.046
XRCA45106K200BT-LF	20	10	B	85	15	125	2.0	6	2	0.194	0.116	0.077
XRCA45106K200CT-LF	20	10	C	85	15	125	2.0	6	1.2	0.274	0.164	0.110
XRCA45156K200BT-LF	20	15	B	85	15	125	3.0	6	2	0.194	0.116	0.077
XRCA45156K200CT-LF	20	15	C	85	15	125	3.0	6	1.7	0.230	0.138	0.092
XRCA45156K200DT-LF	20	15	D	85	15	125	3.0	6	1	0.324	0.194	0.130
XRCA45226K200BT-LF	20	22	B	85	15	125	4.4	6	1.8	0.204	0.122	0.082
XRCA45226K200CT-LF	20	22	C	85	15	125	4.4	6	1.6	0.237	0.142	0.095

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RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45226K200DT-LF	20	22	D	85	15	125	4.4	6	0.8	0.362	0.217	0.145
XRCA45336K200CT-LF	20	33	C	85	15	125	6.6	6	1.2	0.274	0.164	0.110
XRCA45336K200DT-LF	20	33	D	85	15	125	6.6	6	0.9	0.342	0.205	0.137
XRCA45476K200CT-LF	20	47	C	85	15	125	9.4	6	0.9	0.316	0.190	0.126
XRCA45476K200DT-LF	20	47	D	85	15	125	9.4	6	0.7	0.387	0.232	0.155
XRCA45476K200ET-LF	20	47	E	85	15	125	9.4	6	0.9	0.373	0.224	0.149
XRCA45686K200CT-LF	20	68	C	85	15	125	13.6	8	0.5	0.424	0.255	0.170
XRCA45686K200DT-LF	20	68	D	85	15	125	13.6	6	0.4	0.512	0.307	0.205
XRCA45686K200ET-LF	20	68	E	85	15	125	13.6	6	0.9	0.373	0.224	0.149
XRCA45107K200DT-LF	20	100	D	85	15	125	20.0	8	0.5	0.458	0.275	0.183
XRCA45107K200ET-LF	20	100	E	85	15	125	20.0	6	0.4	0.559	0.335	0.224
XRCA45107K200VT-LF	20	100	V	85	15	125	20.0	8	0.5	0.548	0.329	0.219
XRCA45157K200DT-LF	20	150	D	85	15	125	30.0	10	0.9	0.342	0.205	0.137
XRCA45157K200ET-LF	20	150	E	85	15	125	30.0	8	0.3	0.645	0.387	0.258
XRCA45157K200VT-LF	20	150	V	85	15	125	30.0	8	0.3	0.707	0.424	0.283
XRCA45227K200ET-LF	20	220	E	85	15	125	44.0	12	0.9	0.373	0.224	0.149
XRCA45227K200VT-LF	20	220	V	85	15	125	44.0	12	0.9	0.408	0.245	0.163
XRCA45227K200WT-LF	20	220	W	85	15	125	44.0	10	0.2	1.000	0.600	0.400
XRCA45337K200ET-LF	20	330	E	85	15	125	66.0	12	0.8	0.395	0.237	0.158
XRCA45337K200VT-LF	20	330	V	85	15	125	66.0	12	0.8	0.433	0.260	0.173
XRCA45477K200TW-LF	20	470	T	85	15	125	94.0	12	0.2	1.285	0.771	0.514
XRCA45225K250AT-LF	25	2.2	A	85	17	125	0.6	6	6.3	0.102	0.061	0.041
XRCA45335K250AT-LF	25	3.3	A	85	17	125	0.8	6	3.7	0.133	0.080	0.053
XRCA45335K250BT-LF	25	3.3	B	85	17	125	0.8	6	3.5	0.146	0.088	0.059
XRCA45335K250CT-LF	25	3.3	C	85	17	125	0.8	6	2.5	0.190	0.114	0.076
XRCA45475K250AT-LF	25	4.7	A	85	17	125	1.2	6	3.1	0.145	0.087	0.058
XRCA45475K250BT-LF	25	4.7	B	85	17	125	1.2	6	1.5	0.224	0.134	0.089
XRCA45475K250CT-LF	25	4.7	C	85	17	125	1.2	6	2.4	0.194	0.116	0.077
XRCA45685K250BT-LF	25	6.8	B	85	17	125	1.7	6	2.8	0.164	0.098	0.065
XRCA45685K250CT-LF	25	6.8	C	85	17	125	1.7	6	1.9	0.218	0.131	0.087
XRCA45685K250DT-LF	25	6.8	D	85	17	125	1.7	6	1.4	0.274	0.164	0.110
XRCA45106K250BT-LF	25	10	B	85	17	125	2.5	6	2.5	0.173	0.104	0.069
XRCA45106K250CT-LF	25	10	C	85	17	125	2.5	6	1.5	0.245	0.147	0.098
XRCA45106K250DT-LF	25	10	D	85	17	125	2.5	6	1	0.324	0.194	0.130

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RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45156K250CT-LF	25	15	C	85	17	125	3.8	6	1.5	0.245	0.147	0.098
XRCA45156K250DT-LF	25	15	D	85	17	125	3.8	6	1	0.324	0.194	0.130
XRCA45226K250CT-LF	25	22	C	85	17	125	5.5	6	1.4	0.254	0.152	0.101
XRCA45226K250DT-LF	25	22	D	85	17	125	5.5	6	0.8	0.362	0.217	0.145
XRCA45336K250DT-LF	25	33	D	85	17	125	8.3	6	0.7	0.387	0.232	0.155
XRCA45336K250ET-LF	25	33	E	85	17	125	8.3	6	0.9	0.373	0.224	0.149
XRCA45476K250DT-LF	25	47	D	85	17	125	11.8	6	0.7	0.387	0.232	0.155
XRCA45476K250ET-LF	25	47	E	85	17	125	11.8	6	0.9	0.373	0.224	0.149
XRCA45686K250DT-LF	25	68	D	85	17	125	17.0	6	0.7	0.387	0.232	0.155
XRCA45686K250ET-LF	25	68	E	85	17	125	17.0	6	0.9	0.373	0.224	0.149
XRCA45107K250ET-LF	25	100	E	85	17	125	25.0	10	0.3	0.645	0.387	0.258
XRCA45107K250VT-LF	25	100	V	85	17	125	25.0	8	0.3	0.707	0.424	0.283
XRCA45107K250WT-LF	25	100	W	85	17	125	25.0	8	0.25	0.894	0.537	0.358
XRCA45157K250ET-LF	25	150	E	85	17	125	37.5	10	0.8	0.395	0.237	0.158
XRCA45157K250VT-LF	25	150	V	85	17	125	37.5	10	0.4	0.612	0.367	0.245
XRCA45227K250GW-LF	25	220	G	85	17	125	55.0	10	0.2	1.095	0.657	0.438
XRCA45227K250SW-LF	25	220	S	85	17	125	55.0	10	0.2	1.183	0.710	0.473
XRCA45337K250TW-LF	25	330	T	85	17	125	82.5	10	0.2	1.285	0.771	0.514
XRCA45474K350AT-LF	35	0.47	A	85	23	125	0.5	4	12	0.074	0.044	0.029
XRCA45684K350AT-LF	35	0.68	A	85	23	125	0.5	4	8	0.090	0.054	0.036
XRCA45105K350AT-LF	35	1	A	85	23	125	0.5	4	7.5	0.093	0.056	0.037
XRCA45105K350BT-LF	35	1	B	85	23	125	0.5	4	4	0.137	0.082	0.055
XRCA45155K350AT-LF	35	1.5	A	85	23	125	0.5	6	7	0.096	0.058	0.039
XRCA45155K350BT-LF	35	1.5	B	85	23	125	0.5	6	5	0.122	0.073	0.049
XRCA45225K350AT-LF	35	2.2	A	85	23	125	0.8	6	4.5	0.120	0.072	0.048
XRCA45225K350BT-LF	35	2.2	B	85	23	125	0.8	6	4	0.137	0.082	0.055
XRCA45335K350BT-LF	35	3.3	B	85	23	125	1.2	6	3.5	0.146	0.088	0.059
XRCA45335K350CT-LF	35	3.3	C	85	23	125	1.2	6	2.5	0.190	0.114	0.076
XRCA45475K350BT-LF	35	4.7	B	85	23	125	1.6	6	3.1	0.156	0.093	0.062
XRCA45475K350CT-LF	35	4.7	C	85	23	125	1.6	6	2.2	0.202	0.121	0.081
XRCA45475K350DT-LF	35	4.7	D	85	23	125	1.6	6	1.5	0.265	0.159	0.106
XRCA45685K350BT-LF	35	6.8	B	85	23	125	2.4	6	3	0.158	0.095	0.063
XRCA45685K350CT-LF	35	6.8	C	85	23	125	2.4	6	1.8	0.224	0.134	0.089
XRCA45685K350DT-LF	35	6.8	D	85	23	125	2.4	6	1.3	0.284	0.171	0.114

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RATING & PART NUMBER REFERENCE

Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45106K350CT-LF	35	10	C	85	23	125	3.5	6	1.6	0.237	0.142	0.095
XRCA45106K350DT-LF	35	10	D	85	23	125	3.5	6	1	0.324	0.194	0.130
XRCA45106K350ET-LF	35	10	E	85	23	125	3.5	6	0.9	0.373	0.224	0.149
XRCA45156K350CT-LF	35	15	C	85	23	125	5.3	6	1.4	0.254	0.152	0.101
XRCA45156K350DT-LF	35	15	D	85	23	125	5.3	6	0.8	0.362	0.217	0.145
XRCA45156K350ET-LF	35	15	E	85	23	125	5.3	6	0.9	0.373	0.224	0.149
XRCA45226K350CT-LF	35	22	C	85	23	125	7.7	6	1.4	0.254	0.152	0.101
XRCA45226K350DT-LF	35	22	D	85	23	125	7.7	6	0.7	0.387	0.232	0.155
XRCA45226K350ET-LF	35	22	E	85	23	125	7.7	6	0.5	0.500	0.300	0.200
XRCA45336K350DT-LF	35	33	D	85	23	125	11.6	6	0.9	0.342	0.205	0.137
XRCA45336K350ET-LF	35	33	E	85	23	125	11.6	6	0.9	0.373	0.224	0.149
XRCA45476K350DT-LF	35	47	D	85	23	125	16.5	8	1.2	0.296	0.177	0.118
XRCA45476K350ET-LF	35	47	E	85	23	125	16.5	6	0.9	0.373	0.224	0.149
XRCA45476K350VT-LF	35	47	V	85	23	125	16.5	6	0.4	0.612	0.367	0.245
XRCA45686K350ET-LF	35	68	E	85	23	125	23.8	8	1	0.354	0.212	0.141
XRCA45686K350VT-LF	35	68	V	85	23	125	23.8	6	0.5	0.548	0.329	0.219
XRCA45107K350GW-LF	35	100	G	85	23	125	35.0	8	0.25	0.980	0.588	0.392
XRCA45107K350SW-LF	35	100	S	85	23	125	35.0	8	0.25	1.058	0.635	0.423
XRCA45107K350TW-LF	35	100	T	85	23	125	35.0	8	0.25	1.149	0.689	0.460
XRCA45157K350TW-LF	35	150	T	85	23	125	52.5	8	0.2	1.285	0.771	0.514
XRCA45474K500AT-LF	50	0.47	A	85	33	125	0.5	4	9.5	0.083	0.050	0.033
XRCA45684K500AT-LF	50	0.68	A	85	33	125	0.5	4	7.9	0.091	0.054	0.036
XRCA45105K500AT-LF	50	1	A	85	33	125	0.5	4	6.6	0.099	0.060	0.040
XRCA45105K500BT-LF	50	1	B	85	33	125	0.5	6	6	0.112	0.067	0.045
XRCA45155K500BT-LF	50	1.5	B	85	33	125	0.8	8	5.4	0.118	0.071	0.047
XRCA45155K500CT-LF	50	1.5	C	85	33	125	0.8	6	4.5	0.141	0.085	0.057
XRCA45225K500BT-LF	50	2.2	B	85	33	125	1.1	8	4.5	0.129	0.077	0.052
XRCA45225K500CT-LF	50	2.2	C	85	33	125	1.1	6	2.5	0.190	0.114	0.076
XRCA45225K500DT-LF	50	2.2	D	85	33	125	1.1	6	2.5	0.205	0.123	0.082
XRCA45335K500CT-LF	50	3.3	C	85	33	125	1.7	6	2	0.212	0.127	0.085
XRCA45335K500DT-LF	50	3.3	D	85	33	125	1.7	6	2	0.229	0.137	0.092
XRCA45475K500CT-LF	50	4.7	C	85	33	125	2.4	4	1.4	0.254	0.152	0.101
XRCA45475K500DT-LF	50	4.7	D	85	33	125	2.4	6	1.2	0.296	0.177	0.118
XRCA45685K500CT-LF	50	6.8	C	85	33	125	3.4	6	1	0.300	0.180	0.120

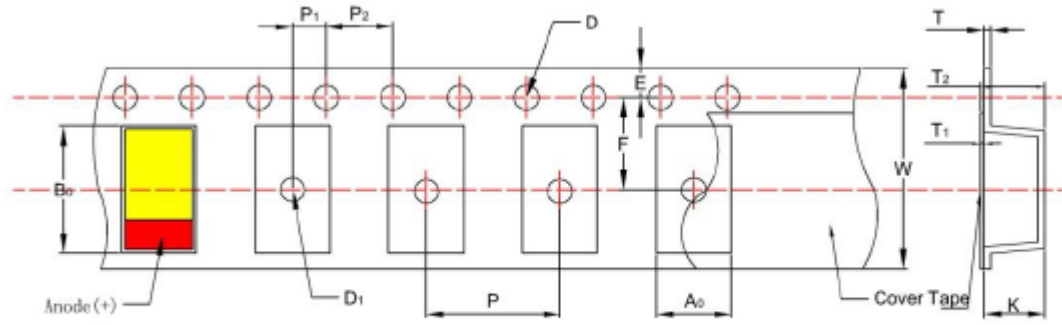
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Code	Rated Voltage (V)	Nominal Capacity (μF)	Shell No.	Rated Temp. (°C)	Cat. Temp. (°C)	Cat. Voltage (V)	Max LC (μA) @25°C	Max loss (%) @25°C 100Hz	ESR Max value(Ω) @25°C 100KHz	Max allowable ripple current@100KHz IRMS (A)		
										25°C	85°C	125°C
XRCA45685K500DT-LF	50	6.8	D	85	33	125	3.4	6	1	0.324	0.194	0.130
XRCA45685K500ET-LF	50	6.8	E	85	33	125	3.4	6	1.5	0.289	0.173	0.115
XRCA45106K500DT-LF	50	10	D	85	33	125	5.0	6	0.8	0.362	0.217	0.145
XRCA45106K500ET-LF	50	10	E	85	33	125	5.0	6	1	0.354	0.212	0.141
XRCA45106K500VT-LF	50	10	V	85	33	125	5.0	6	0.65	0.480	0.288	0.192
XRCA45156K500DT-LF	50	15	D	85	33	125	7.5	6	0.6	0.418	0.251	0.167
XRCA45156K500ET-LF	50	15	E	85	33	125	7.5	6	0.6	0.456	0.274	0.183
XRCA45156K500VT-LF	50	15	V	85	33	125	7.5	6	0.6	0.500	0.300	0.200
XRCA45226K500ET-LF	50	22	E	85	33	125	11.0	8	0.9	0.373	0.224	0.149
XRCA45226K500VT-LF	50	22	V	85	33	125	11.0	8	0.6	0.500	0.300	0.200
XRCA45336K500WT-LF	50	33	W	85	33	125	16.5	6	0.3	0.816	0.490	0.327
XRCA45336K500GW-LF	50	33	G	85	33	125	16.5	6	0.3	0.894	0.537	0.358
XRCA45476K500SW-LF	50	47	S	85	33	125	23.5	6	0.3	0.966	0.580	0.386
XRCA45476K500TW-LF	50	47	T	85	33	125	23.5	6	0.3	1.049	0.629	0.420
XRCA45686K500TW-LF	50	68	T	85	33	125	34.0	6	0.25	1.149	0.689	0.460
XRCA45107K500TW-LF	50	100	T	85	33	125	50.0	8	0.25	1.149	0.689	0.460
XRCA45105K630CT-LF	63	1	C	85	40	125	0.6	6	5	0.134	0.080	0.054
XRCA45155K630DT-LF	63	1.5	D	85	40	125	0.9	6	3.5	0.173	0.104	0.069
XRCA45225K630DT-LF	63	2.2	D	85	40	125	1.4	6	2	0.229	0.137	0.092
XRCA45335K630DT-LF	63	3.3	D	85	40	125	2.1	6	1.5	0.265	0.159	0.106
XRCA45475K630ET-LF	63	4.7	E	85	40	125	3.0	6	1	0.354	0.212	0.141
XRCA45685K630ET-LF	63	6.8	E	85	40	125	4.3	6	0.8	0.395	0.237	0.158
XRCA45106K630ET-LF	63	10	E	85	40	125	6.3	8	0.6	0.456	0.274	0.183
XRCA45106K630WT-LF	63	10	W	85	40	125	6.3	6	0.4	0.707	0.424	0.283
XRCA45156K630ET-LF	63	15	E	85	40	125	9.5	8	0.4	0.559	0.335	0.224
XRCA45156K630VT-LF	63	15	V	85	40	125	9.5	8	0.4	0.612	0.367	0.245
XRCA45156K630WT-LF	63	15	W	85	40	125	9.5	6	0.4	0.707	0.424	0.283
XRCA45226K630VT-LF	63	22	V	85	40	125	13.9	8	0.4	0.612	0.367	0.245
XRCA45226K630WT-LF	63	22	W	85	40	125	13.9	6	0.4	0.707	0.424	0.283
XRCA45226K630GW-LF	63	22	G	85	40	125	13.9	6	0.4	0.775	0.465	0.310
XRCA45336K630TW-LF	63	33	T	85	40	125	20.8	6	0.3	1.049	0.629	0.420
XRCA45476K630TW-LF	63	47	T	85	40	125	29.6	6	0.3	1.049	0.629	0.420
XRCA45686K630TW-LF	63	68	T	85	40	125	42.8	6	0.25	1.149	0.689	0.460

- # is a replacement character used to represent the capacity tolerance. Fill in K for ± 10% and M for ± 20%;
- Please do not use a multimeter to measure;
- Capacity and loss measurement conditions: 100Hz, U_r=2.2 0-1V, U_~=1.00 V, Frequency=100Hz, measured in series
- If the ambient temperature is higher than+8 °C, the rated voltage needs to be reduced for use (The leakage current parameter is the reading after 5 minutes of power on)
- For special sizes or requirements, please contact us.

A,B,C,D,E,V,W Case Product Packaging



Embossed (Plastic) Carrier Tape Dimensions

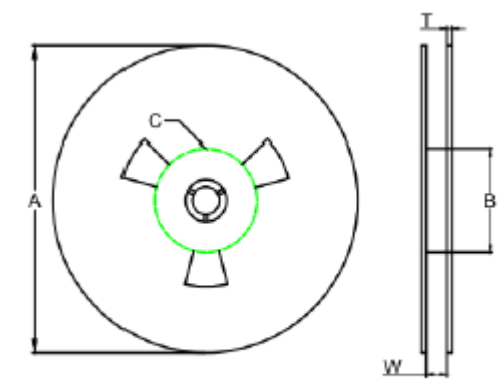
Diagram of Taping Dimensions

Case	A ₀ ±0.10	B ₀ ±0.10	K±0.10	W±0.30	E±0.10	F±0.05	P±0.10	P ₁ ±0.05	P ₂ ±0.10	D±0.20	D ₁ ±0.25
A	1.83	3.57	1.65	8	1.75	3.5	4	2	4	1.5	1
B	3.15	3.77	2.22	8	1.75	3.5	4	2	4	1.5	1
C	3.45	6.4	2.92	12	1.75	5.5	8	2	4	1.5	1.5
D	4.48	7.62	3.22	12	1.75	5.5	8	2	4	1.5	1.5
E	4.5	7.5	4.5	12	1.75	5.5	8	2	4	1.5	1.5
V	6.4	7.6	4.4	12	1.75	5.5	8	2	4	1.5	1.5
W	7.2	8.1	4.75	16	1.75	7.5	12	2	4	1.5	1.5

±0.2mm over 10 sprocket hole spaces

Reel Dimensions

Reel Size	Tape Wide	A	B	C	W	T
180mm (7")	8mm	178±2.00	50 min	13.0±0.50	8.4+1.5/-0	1.50±0.50
180mm (7")	12mm	178±2.00	50 min	13.0±0.50	12.4+1.5/-0	1.50±0.50
180mm (7")	16mm	178±2.00	50 min	13.0±0.50	16.4+1.5/-1	1.50±0.50



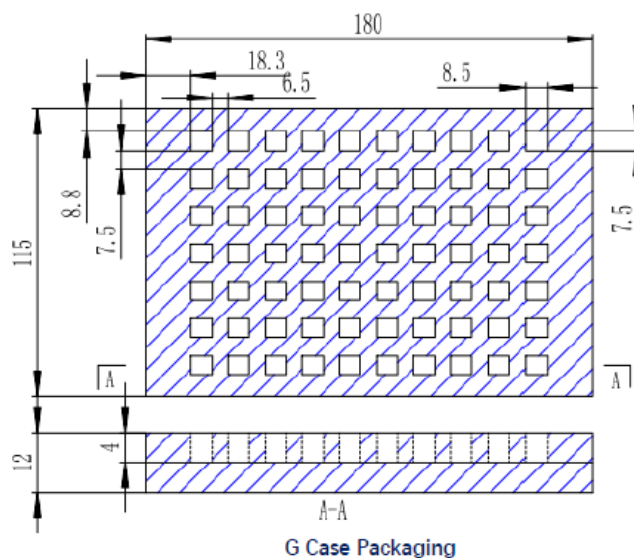
Reel Dimensions

Packaging Quantity

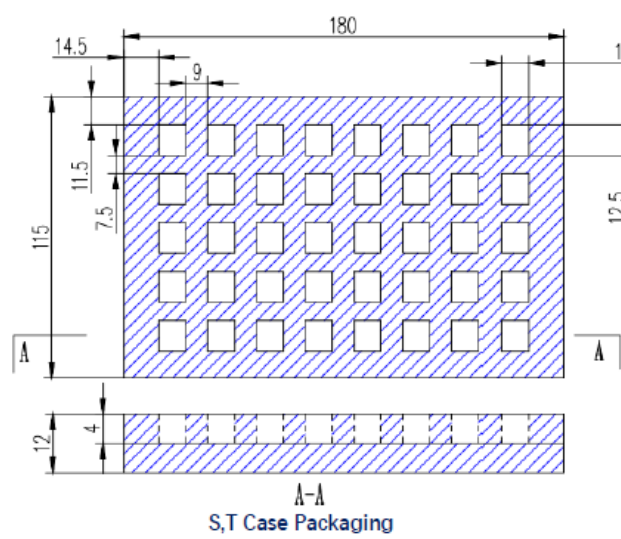
Case size	A	B	C	D	E	V	W
Quantity (pcs / plate)	2000	2000	500	500	400	400	400

G,S,T Case Product Packaging

The dimensions of the tray see the figure below . G size have 70 pcs per tray. Both Case size "S" and "T" have 40 pcs per tray .



G Case Packaging



S,T Case Packaging

A.C. OPERATION, RIPPLE VOLTAGE AND RIPPLE CURRENT

In an a.c. application heat is generated within the capacitor by both the a.c. component of the signal (which will depend upon the signal form, amplitude and frequency), and by the d.c. leakage. For practical purposes the second factor is insignificant. The actual power dissipated in the capacitor is calculated using the formula:

$$P = I^2 R$$

And rearranged to $I = \sqrt{P/R}$ (Eq. 1)

Where I = rms ripple current, amperes
 R = equivalent series resistance, ohms
 U = rms ripple voltage, volts
 P = power dissipated, watts
 Z = impedance, ohms, at frequency under consideration

Maximum a.c. ripple voltage (U_{max}). From the Ohms' law equation:
 $U_{max} = IR$ (Eq. 2)

Where P is the maximum permissible power dissipated as listed for the product under Consideration (see tables). However care must be taken to ensure that:

1. The d.c. working voltage of the capacitor must not be exceeded by the sum of the positive peak of the applied a.c. voltage and the d.c. bias voltage.
2. The sum of the applied d.c. bias voltage and the negative peak of the a.c. voltage must not allow a voltage reversal in excess of the "Reverse Voltage".

Historical ripple calculations.

Previous ripple current and voltage values were calculated using an empirically derived power dissipation required to give a 10°C (30°C for polymer) rise of the capacitors body temperature from room temperature, usually in free air. These values are shown in Table below "Power Dissipation Ratings". Equation 1 then allows the maximum ripple current to be established, and Equation 2, the maximum ripple voltage.

Power Dissipation Ratings (In Free Air)

Case Size	A	B	C	D	E	V	W	G	S	T
Max. Power Dissipation @+25°C (Watts)	0.065	0.075	0.090	0.105	0.125	0.150	0.200	0.240	0.280	0.330

Land Dimension /Courtyard

Case code	Metric Size 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)				
Case	EIA	W	L	S	V1	V2	W	L	S	V1	V2	W	L	S	V1	V2
A	3216-18	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	3528-21	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	6032-25	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	7343-31	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	7343-43	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

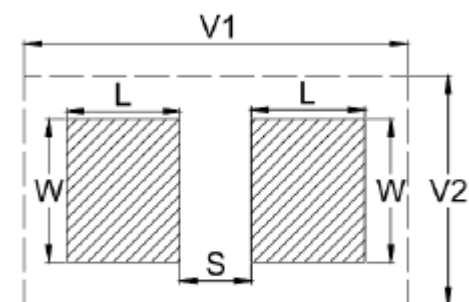
Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

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

XIANGYEE 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.

XIANGYEE'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.

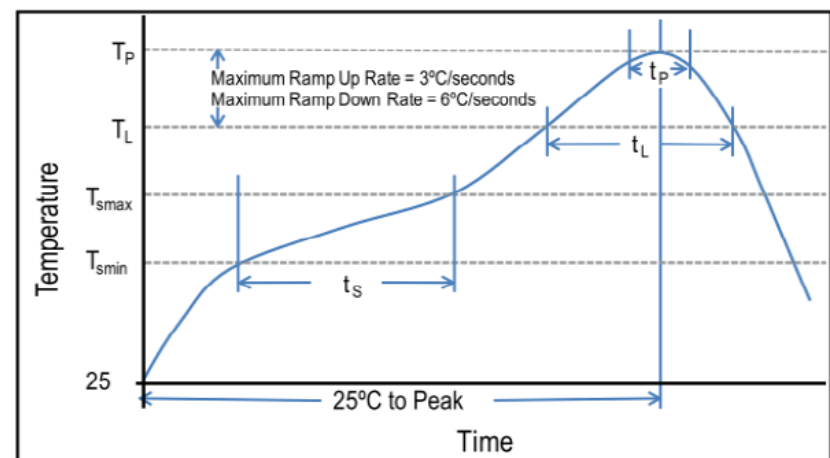
Hand soldering should be performed with care due to the difficulty in process control. If performed, care should be taken to avoid contact of the soldering iron to the molded case. The iron should be used to heat the solder pad, applying solder between the pad and the termination, until reflow occurs. 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 (TSmin)	100°C	150°C
Temperature Maximum (TSmax) Time (ts) from TSmin to TSmax	150°C 60 – 120 seconds	200°C 60 – 120 seconds
Ramp-up Rate (TL to TP)	3°C/seconds maximum	3°C/seconds maximum
Liquidous Temperature (TL)	183°C	217°C
Time Above Liquidous (tL)	60 – 150 seconds	60 – 150 seconds
Peak Temperature (TP)	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 (TP to TL)	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

Storage

Tantalum dielectric chip capacitors are unaffected by the following storage condition for 2 years:

Temperature: -10°C – +40°C Humidity: 60% RH maximum

Atmospheric pressure: 860 mbar ~ 1060mbar

Tantalum capacitors exhibit a very low random failure rate after long periods of storage and apart from this there are no known modes of failure under normal storage conditions. All capacitors will withstand any environmental conditions within their ratings for the periods given in the detail specifications. Storage for longer periods under high humidity conditions may affect the leakage current of resin protected capacitors. Solderability of solder coated surfaces may be affected by storage of excess of 2 years.