

CA45 Series

Standard Chip Tantalum Capacitors · Conventional chip tantalum solid electrolyte 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

TEMPERATURE RANGE
 -55°C ... +125°C

RATED VOLTAGE
 2.5 – 63 V

CAPACITANCE
 0.47 – 2200 μF

Rated voltage 2.5–63 V and capacitance 0.47–2200 μF = range of the listed part numbers (original PDF pp.3–11). The technical characteristics (original PDF p.2) state 0.10μF~1000μF and rated voltages up to 100 V — subject to manufacturer confirmation.

Specifications

Technical data	All technical data relate to an ambient temperature of +25°C
Capacitance range	0.10μF~1000μF
Capacitance tolerance	±10%, ±20%
Rated, category and surge voltage	See table below (Rated, category and surge voltages)
Temperature range	-55°C to +125°C
Termination finish	Tin coating (standard) gold coating or tin lead coating subject to additional requirements

Rated, category and surge voltages

Rated voltage (VR) ≤+85°C	2.5	4	6.3	10	16	20	25	35	50	63	75	100
Category voltage (VC) ≤+125°C	1.7	2.7	4	6.3	10	15	17	23	33	40	50	63
Surge voltage (VS) ≤+85°C	3.3	5.2	8	13	20	26	32	46	65	82	97	130
Surge voltage (VS) ≤+125°C	2.2	3.4	5	8	13	16	20	28	40	50	60	80

Values in V, as printed in the technical characteristics (original PDF p.2). Part numbers are listed for 2.5–63 V only (original PDF pp.3–11); 75 V and 100 V — subject to manufacturer confirmation.

Marking (original PDF p.1)

Capacitance value in pF: 107=100uF

Polarity band (Anode +)

Rated voltage code A=10Vdc

Rated voltage less than 63Vdc

Rated voltage

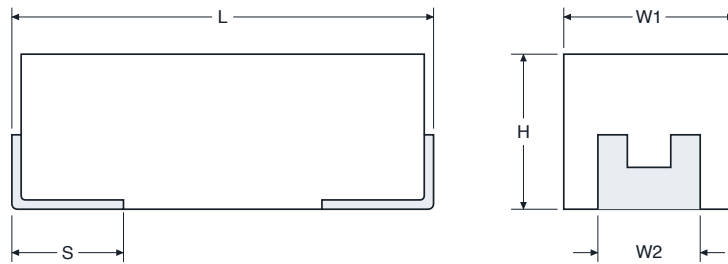
Polarity band (Anode +)

Capacitance value in pF: 106=10uF

Rated voltage as 63Vdc or more

Only the rated voltage code A=10Vdc is given; codes for other voltages are not printed — subject to manufacturer confirmation.

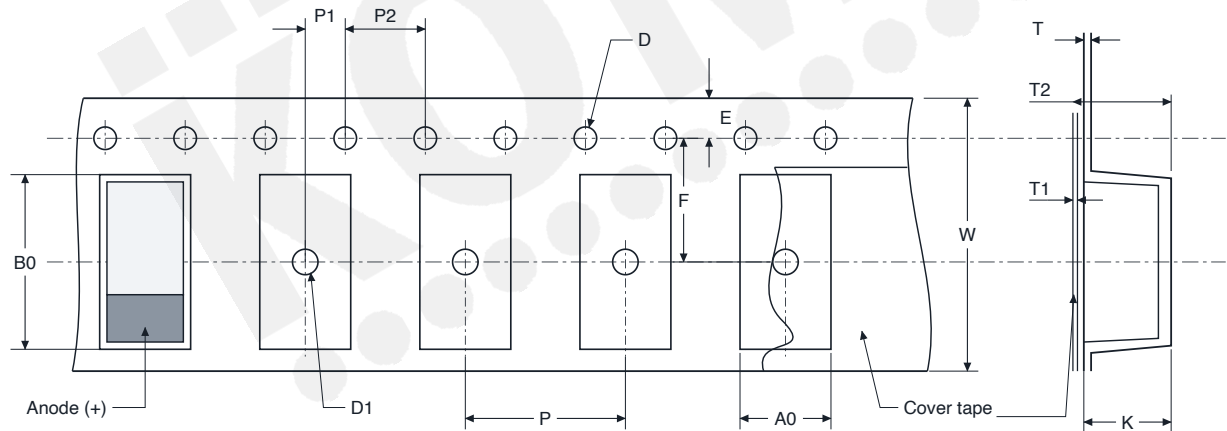
Dimensions (original PDF p.1)



Case code	EIA code	EIA metric	L	W1	H	W2	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

Unit: mm. Values as printed on original PDF p.1; the drawing carries letters only. Case A W1 printed '1.60±0.20' (without ±); EIA metric codes A, B, D differ from the land pattern table (original PDF p.13: 3216–18, 3528–21, 7343–31) — subject to manufacturer confirmation.

Taping — A, B, C, D, E, V, W cases (original PDF p.12)



Embossed (plastic) carrier tape dimensions

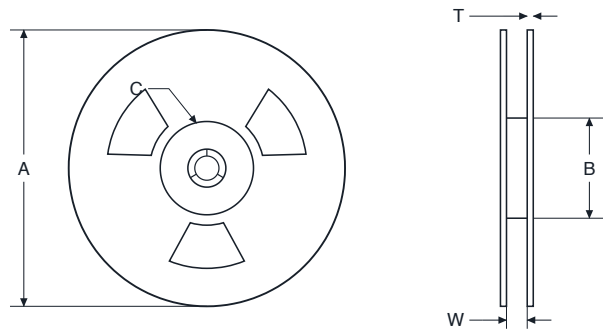
Case	A0±0.10	B0±0.10	K±0.10	W±0.30	E±0.10	F±0.05	P±0.10	P1±0.05	P2±0.10	D+0.20	D1+0.25
A	1.83	3.57	1.65	8	1.75	3.5	4	2	4	1.5	1
B	3.15	3.77	2.22	8	1.75	3.5	4	2	4	1.5	1
C	3.45	6.4	2.92	12	1.75	5.5	8	2	4	1.5	1.5
D	4.48	7.62	3.22	12	1.75	5.5	8	2	4	1.5	1.5
E	4.5	7.5	4.5	12	1.75	5.5	8	2	4	1.5	1.5
V	6.4	7.6	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

Unit: mm. Values and tolerances as printed on original PDF p.12 (Diagram of taping dimensions).

±0.2mm over 10 sprocket hole spaces

T, T1 and T2 are labelled in the drawing; no values are printed — subject to manufacturer confirmation.

Reel dimensions (original PDF p.12)



Reel dimensions

Reel size	Tape width	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

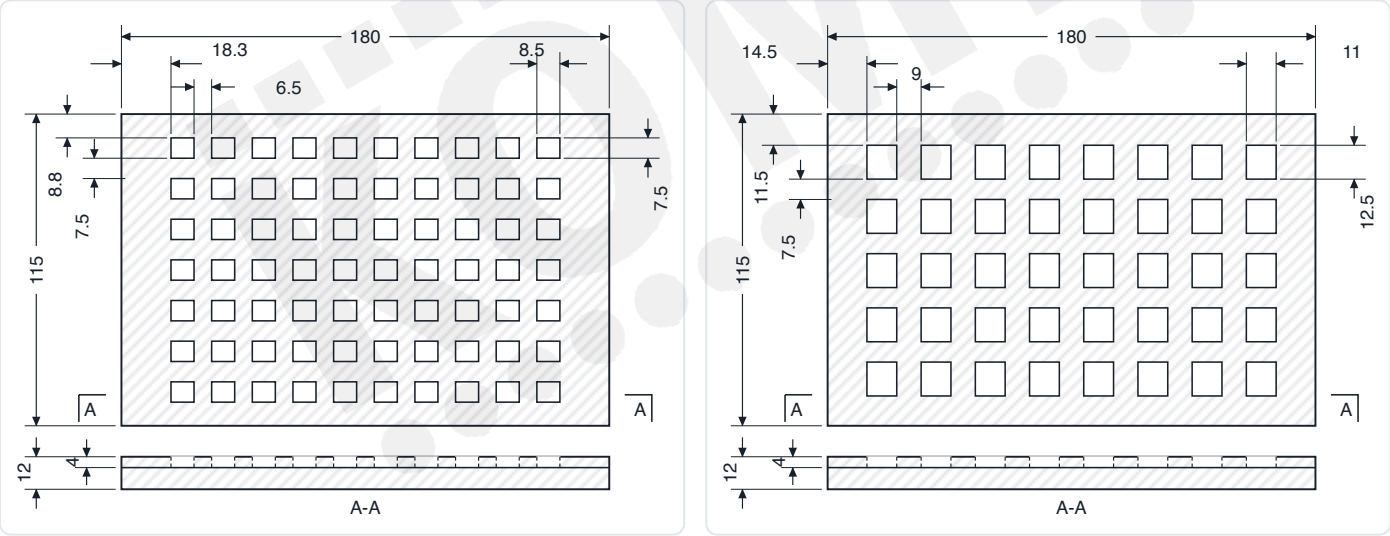
Unit: mm. Values as printed on original PDF p.12.
W for 16mm tape is printed '16.4+1.5/-1' (8mm and 12mm: '+1.5/-0') — subject to manufacturer confirmation.

Packaging quantity (original PDF p.12)

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

Unit printed as 'pcs / plate' on the original PDF and kept as printed; whether 'plate' means reel — subject to manufacturer confirmation.

Tray packaging — G, S, T cases (original PDF p.12)



G case: 70 pcs per tray. S and T cases: 40 pcs per tray. Tray dimensions as in the drawings.
No unit is printed on the tray drawings (original PDF p.12) — subject to manufacturer confirmation.

A.C. operation, ripple voltage and ripple current (original PDF p.13)

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 Ohm's 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".

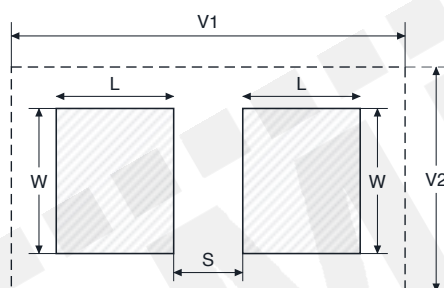
Historical ripple calculations. Previous ripple current and voltage values were calculated using an empirically derived power dissipation required to give a 10°C (30°C for polymer) rise of the capacitors body temperature from room temperature, usually in free air. These values are shown in Table below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

No reverse voltage value is given in the original datasheet — subject to manufacturer confirmation.

Power dissipation ratings (in free air) (original PDF p.13)

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 (original PDF p.13)



Surface mount footprints

Case code	Metric size code (EIA)	A: W	A: L	A: S	A: V1	A: V2	B: W	B: L	B: S	B: V1	B: V2	C: W	C: L	C: S	C: V1	C: 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

Unit: mm. A = Density Level A: Maximum (Most) Land Protrusion; B = Density Level B: Median (Nominal) Land Protrusion; C = Density Level C: Minimum (Least) Land Protrusion.

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.

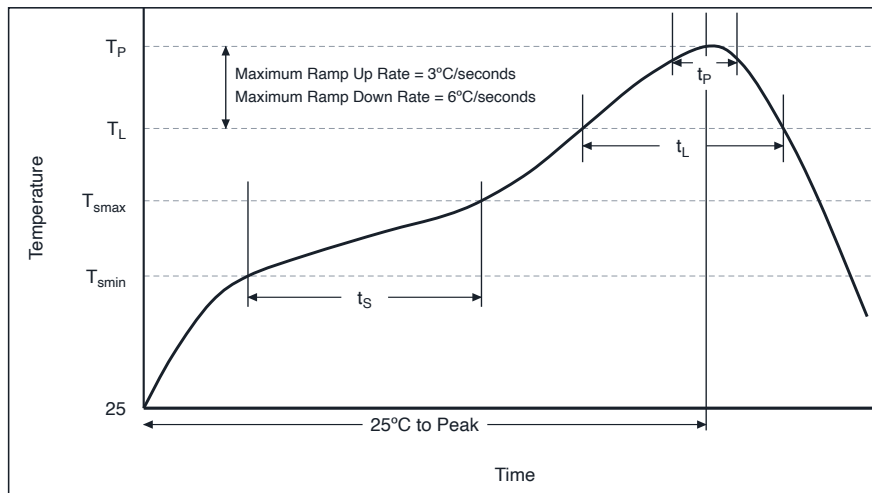
Density Level C: For high component density product applications. Before adapting the minimum land pattern variations the user should perform qualification testing based on the conditions outlined in IPC standard 7351 (IPC-7351).

1 Height of these chips may create problems in wave soldering.

2 Land pattern geometry is too small for silkscreen outline.

Land patterns are given for cases A–E only; notes 1 and 2 are not linked to any row in the original — subject to manufacturer confirmation.

Soldering process (original PDF p.14)



Recommended reflow profile

Profile feature	SnPb assembly	Pb-free assembly
Preheat/Soak		
Temperature Minimum (TSmin)	100°C	150°C
Temperature Maximum (TSmax)	150°C	200°C
Time (ts) from TSmin to TSmax	60 – 120 seconds	60 – 120 seconds
Ramp-up Rate (TL to TP)	3°C/seconds maximum	3°C/seconds maximum
Liquidus Temperature (TL)	183°C	217°C
Time Above Liquidus (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

The original PDF states that XIANGYEE tantalum capacitors are compatible with wave (single or dual), convection, IR, or vapor phase reflow techniques, and that preheating of these components is recommended to avoid extreme thermal stress.

The original PDF states that 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, and that the devices can safely withstand a maximum of three reflow passes at these conditions.

Applicability of the two statements above to this KOMÉ series — subject to manufacturer confirmation.

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.

Peak temperature is stated for cases A–E only (*D, E; **A, B, C); cases V, W, G, S, T are not assigned — subject to manufacturer confirmation.

Storage (original PDF p.14)

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 in excess of 2 years.

Capacitance and rated voltage range (letter denotes case size) (original PDF p.3)

Capacitance (μF) / Rated voltage (V)	2.5	4	6.3	10	16	20	25	35	50	63
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									

Case codes as printed on original PDF p.3; identical to the characteristics list (original PDF pp.4–11, 271 part numbers).

Notes pending manufacturer confirmation

Capacitance range: 0.10 μF –1000 μF (original PDF p.2) vs. 0.47–2200 μF in the listed part numbers (pp.3–11) — subject to manufacturer confirmation.

Rated voltage: 75 V and 100 V are listed on p.2 (with category and surge voltages); part numbers end at 63 V (pp.3–11) — subject to manufacturer confirmation.

How to order lists voltage codes 040, 060, 100, 160, 250 only (p.1); part numbers also use 020, 200, 350, 500, 630 (pp.4–11) — subject to manufacturer confirmation.

Package code: How to order gives 'T=Reel' only (p.1); all 23 G, S, T case part numbers end in W (pp.5–11); W is not defined — subject to manufacturer confirmation.

Duplicate part numbers: XRCA45227K060CT-LF printed for cases C and D (p.5); XRCA45106K160AT-LF printed for cases A and B (p.6) — subject to manufacturer confirmation.

Characteristics list headings 'Cat. Temp.' / 'Cat. Voltage' kept as printed; the values under them appear to be transposed (pp.4–11) — subject to manufacturer confirmation.

Table notes on measurement levels and voltage derating are printed differently on pp.4–5 and pp.6–11; '+8 °C' is incomplete as printed — subject to manufacturer confirmation.

Dimensions: case A W1 printed '1.60±0.20' (p.1) — subject to manufacturer confirmation.

EIA metric codes A, B, D: p.1 3216-16 / 3528-19 / 7343-28 vs. p.13 3216-18 / 3528-21 / 7343-31 — subject to manufacturer confirmation.

Marking: voltage code given for A=10Vdc only (p.1) — subject to manufacturer confirmation.

Taping: T, T1, T2 drawn without values; reel W for 16mm tape '+1.5/-1' vs. '+1.5/-0' (p.12) — subject to manufacturer confirmation.

Tray drawings carry no unit (p.12) — subject to manufacturer confirmation.

Land pattern: cases A–E only; notes 1 and 2 not linked to any row; 'Reverse Voltage' referred to without a value (p.13) — subject to manufacturer confirmation.

Reflow peak temperature assigned for cases A–E only (p.14) — subject to manufacturer confirmation.

Page numbers refer to the original KOMÉ PDF (14 pages).

How to order

XRCA45 Model	107 Capacitance code	K Capacitance tolerance K=±10% / M=±20%	060 DC rated voltage 040=4Vdc / 060=6.3Vdc / 100=10Vdc / 160=16Vdc / 250=25Vdc	B Case size	T Package T=Reel	- Separator	LF Lead free
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Example: XRCA45107K060BT-LF

Characteristics list

VR (V)	CR (μF)	Case	TR (°C)	Cat. Temp. (°C)†	Cat. Voltage (V)†	DCL (μA)	DF (%)	ESR (Ω)	IRMS 25°C	IRMS 85°C	IRMS 125°C	Part number
2.5	680	C	85	1.7	125	17.0	18	0.2	0.671	0.402	0.268	XRCA45687K020CT-LF
2.5	680	D	85	1.7	125	17.0	16	0.2	0.725	0.435	0.290	XRCA45687K020DT-LF
2.5	680	E	85	1.7	125	17.0	10	0.2	0.791	0.474	0.316	XRCA45687K020ET-LF
2.5	1000	D	85	1.7	125	25.0	20	0.2	0.725	0.435	0.290	XRCA45108K020DT-LF
2.5	1000	E	85	1.7	125	25.0	14	0.2	0.791	0.474	0.316	XRCA45108K020ET-LF
2.5	1500	D	85	1.7	125	37.5	60	0.2	0.725	0.435	0.290	XRCA45158K020DT-LF
2.5	1500	E	85	1.7	125	37.5	20	0.2	0.791	0.474	0.316	XRCA45158K020ET-LF
2.5	1500	V	85	1.7	125	37.5	20	0.2	0.866	0.520	0.346	XRCA45158K020VT-LF
2.5	2200	V	85	1.7	125	55.0	50	0.2	0.866	0.520	0.346	XRCA45228K020VT-LF
4	47	A	85	2.7	125	1.9	11	8	0.090	0.054	0.036	XRCA45476K040AT-LF
4	68	A	85	2.7	125	2.7	24	2.5	0.161	0.097	0.064	XRCA45686K040AT-LF
4	100	A	85	2.7	125	4.0	30	2	0.180	0.108	0.072	XRCA45107K040AT-LF
4	100	B	85	2.7	125	4.0	12	0.9	0.289	0.173	0.115	XRCA45107K040BT-LF
4	150	B	85	2.7	125	6.0	10	1.5	0.224	0.134	0.089	XRCA45157K040BT-LF
4	150	C	85	2.7	125	6.0	6	0.3	0.548	0.329	0.219	XRCA45157K040CT-LF
4	150	D	85	2.7	125	6.0	8	0.8	0.362	0.217	0.145	XRCA45157K040DT-LF
4	220	B	85	2.7	125	8.8	18	1	0.274	0.164	0.110	XRCA45227K040BT-LF
4	220	C	85	2.7	125	8.8	12	1.1	0.286	0.172	0.114	XRCA45227K040CT-LF
4	220	D	85	2.7	125	8.8	8	0.8	0.362	0.217	0.145	XRCA45227K040DT-LF
4	330	C	85	2.7	125	13.2	10	0.9	0.316	0.190	0.126	XRCA45337K040CT-LF
4	330	D	85	2.7	125	13.2	8	0.7	0.387	0.232	0.155	XRCA45337K040DT-LF
4	470	C	85	2.7	125	18.8	14	0.5	0.424	0.255	0.170	XRCA45477K040CT-LF
4	470	D	85	2.7	125	18.8	8	0.5	0.458	0.275	0.183	XRCA45477K040DT-LF
4	470	E	85	2.7	125	18.8	10	0.5	0.500	0.300	0.200	XRCA45477K040ET-LF
4	680	D	85	2.7	125	27.2	12	0.5	0.458	0.275	0.183	XRCA45687K040DT-LF
4	680	E	85	2.7	125	27.2	14	0.9	0.373	0.224	0.149	XRCA45687K040ET-LF
4	1000	D	85	2.7	125	40.0	60	0.3	0.592	0.355	0.237	XRCA45108K040DT-LF
4	1000	E	85	2.7	125	40.0	14	0.3	0.645	0.387	0.258	XRCA45108K040ET-LF
4	1000	V	85	2.7	125	40.0	12	0.2	0.866	0.520	0.346	XRCA45108K040VT-LF
4	1500	E	85	2.7	125	60.0	30	0.2	0.791	0.474	0.316	XRCA45158K040ET-LF
4	1500	V	85	2.7	125	60.0	30	0.2	0.866	0.520	0.346	XRCA45158K040VT-LF
6.3	22	A	85	4	125	1.4	6	3	0.147	0.088	0.059	XRCA45226K060AT-LF
6.3	33	A	85	4	125	2.1	8	2.2	0.172	0.103	0.069	XRCA45336K060AT-LF
6.3	47	A	85	4	125	3.0	12	2.5	0.161	0.097	0.064	XRCA45476K060AT-LF
6.3	47	B	85	4	125	3.0	6	1	0.274	0.164	0.110	XRCA45476K060BT-LF
6.3	68	A	85	4	125	4.3	20	4	0.127	0.076	0.051	XRCA45686K060AT-LF
6.3	68	B	85	4	125	4.3	8	0.9	0.289	0.173	0.115	XRCA45686K060BT-LF
6.3	68	C	85	4	125	4.3	6	1.2	0.274	0.164	0.110	XRCA45686K060CT-LF
6.3	100	A	85	4	125	6.3	35	2	0.180	0.108	0.072	XRCA45107K060AT-LF
6.3	100	B	85	4	125	6.3	12	1.7	0.210	0.126	0.084	XRCA45107K060BT-LF
6.3	100	C	85	4	125	6.3	8	0.9	0.316	0.190	0.126	XRCA45107K060CT-LF
6.3	150	B	85	4	125	9.5	10	1.2	0.250	0.150	0.100	XRCA45157K060BT-LF
6.3	150	C	85	4	125	9.5	8	1.2	0.274	0.164	0.110	XRCA45157K060CT-LF
6.3	150	D	85	4	125	9.5	8	0.7	0.387	0.232	0.155	XRCA45157K060DT-LF
6.3	220	B	85	4	125	13.9	30	1.2	0.250	0.150	0.100	XRCA45227K060BT-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	XRCA45227K060DT-LF
6.3	220	E	85	4	125	13.9	8	0.4	0.559	0.335	0.224	XRCA45227K060ET-LF
6.3	330	C	85	4	125	20.8	12	0.5	0.424	0.255	0.170	XRCA45337K060CT-LF
6.3	330	D	85	4	125	20.8	8	0.4	0.512	0.307	0.205	XRCA45337K060DT-LF

VR (V)	CR (μF)	Case	TR (°C)	Cat. Temp. (°C)†	Cat. Voltage (V)†	DCL (μA)	DF (%)	ESR (Ω)	IRMS 25°C	IRMS 85°C	IRMS 125°C	Part number
6.3	330	E	85	4	125	20.8	8	0.4	0.559	0.335	0.224	XRCA45337K060ET-LF
6.3	470	D	85	4	125	29.6	12	0.3	0.592	0.355	0.237	XRCA45477K060DT-LF
6.3	470	E	85	4	125	29.6	10	0.4	0.559	0.335	0.224	XRCA45477K060ET-LF
6.3	470	V	85	4	125	29.6	10	0.4	0.612	0.367	0.245	XRCA45477K060VT-LF
6.3	680	E	85	4	125	42.8	10	0.5	0.500	0.300	0.200	XRCA45687K060ET-LF
6.3	680	V	85	4	125	42.8	10	0.5	0.548	0.329	0.219	XRCA45687K060VT-LF
6.3	680	W	85	4	125	42.8	12	0.2	1.000	0.600	0.400	XRCA45687K060WT-LF
6.3	1000	E	85	4	125	63.0	20	0.2	0.791	0.474	0.316	XRCA45108K060ET-LF
6.3	1000	V	85	4	125	63.0	15	0.2	0.866	0.520	0.346	XRCA45108K060VT-LF
6.3	1000	G	85	4	125	63.0	16	0.2	1.095	0.657	0.438	XRCA45108K060GW-LF
6.3	1500	T	85	4	125	94.5	16	0.2	1.285	0.771	0.514	XRCA45158K060TW-LF
10	10	A	85	6.3	125	1.0	6	3	0.147	0.088	0.059	XRCA45106K100AT-LF
10	15	A	85	6.3	125	1.5	6	3.2	0.143	0.086	0.057	XRCA45156K100AT-LF
10	22	A	85	6.3	125	2.2	10	3	0.147	0.088	0.059	XRCA45226K100AT-LF
10	22	B	85	6.3	125	2.2	6	1.9	0.199	0.119	0.079	XRCA45226K100BT-LF
10	33	A	85	6.3	125	3.3	15	1.7	0.196	0.117	0.078	XRCA45336K100AT-LF
10	33	B	85	6.3	125	3.3	6	1.8	0.204	0.122	0.082	XRCA45336K100BT-LF
10	33	C	85	6.3	125	3.3	6	1.5	0.245	0.147	0.098	XRCA45336K100CT-LF
10	47	A	85	6.3	125	4.7	40	2	0.180	0.108	0.072	XRCA45476K100AT-LF
10	47	B	85	6.3	125	4.7	8	1	0.274	0.164	0.110	XRCA45476K100BT-LF
10	47	C	85	6.3	125	4.7	6	0.9	0.316	0.190	0.126	XRCA45476K100CT-LF
10	68	B	85	6.3	125	6.8	6	1.4	0.231	0.139	0.093	XRCA45686K100BT-LF
10	68	C	85	6.3	125	6.8	6	0.8	0.335	0.201	0.134	XRCA45686K100CT-LF
10	68	D	85	6.3	125	6.8	6	0.8	0.362	0.217	0.145	XRCA45686K100DT-LF
10	100	B	85	6.3	125	10.0	18	1.4	0.231	0.139	0.093	XRCA45107K100BT-LF
10	100	C	85	6.3	125	10.0	8	1	0.300	0.180	0.120	XRCA45107K100CT-LF
10	100	D	85	6.3	125	10.0	8	0.7	0.387	0.232	0.155	XRCA45107K100DT-LF
10	150	C	85	6.3	125	15.0	8	0.9	0.316	0.190	0.126	XRCA45157K100CT-LF
10	150	D	85	6.3	125	15.0	8	0.6	0.418	0.251	0.167	XRCA45157K100DT-LF
10	150	E	85	6.3	125	15.0	8	0.9	0.373	0.224	0.149	XRCA45157K100ET-LF
10	220	C	85	6.3	125	22.0	16	0.9	0.316	0.190	0.126	XRCA45227K100CT-LF
10	220	D	85	6.3	125	22.0	8	0.5	0.458	0.275	0.183	XRCA45227K100DT-LF
10	220	E	85	6.3	125	22.0	8	0.5	0.500	0.300	0.200	XRCA45227K100ET-LF
10	330	D	85	6.3	125	33.0	10	0.5	0.458	0.275	0.183	XRCA45337K100DT-LF
10	330	E	85	6.3	125	33.0	8	0.9	0.373	0.224	0.149	XRCA45337K100ET-LF
10	330	V	85	6.3	125	33.0	10	0.5	0.548	0.329	0.219	XRCA45337K100VT-LF
10	470	E	85	6.3	125	47.0	10	0.5	0.500	0.300	0.200	XRCA45477K100ET-LF
10	470	V	85	6.3	125	47.0	10	0.2	0.866	0.520	0.346	XRCA45477K100VT-LF
10	680	E	85	6.3	125	68.0	14	0.5	0.500	0.300	0.200	XRCA45687K100ET-LF
10	680	S	85	6.3	125	68.0	12	0.2	1.183	0.710	0.473	XRCA45687K100SW-LF
10	680	T	85	6.3	125	68.0	12	0.2	1.285	0.771	0.514	XRCA45687K100TW-LF
10	1000	T	85	6.3	125	100.0	16	0.2	1.285	0.771	0.514	XRCA45108K100TW-LF
16	6.8	A	85	10	125	1.1	6	3.5	0.136	0.082	0.055	XRCA45685K160AT-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	XRCA45106K160AT-LF
16	15	A	85	10	125	2.4	6	2	0.180	0.108	0.072	XRCA45156K160AT-LF
16	15	B	85	10	125	2.4	6	2	0.194	0.116	0.077	XRCA45156K160BT-LF
16	15	C	85	10	125	2.4	6	1.8	0.224	0.134	0.089	XRCA45156K160CT-LF
16	22	A	85	10	125	3.5	15	3	0.147	0.088	0.059	XRCA45226K160AT-LF
16	22	B	85	10	125	3.5	6	2.2	0.185	0.111	0.074	XRCA45226K160BT-LF
16	22	C	85	10	125	3.5	6	1.5	0.245	0.147	0.098	XRCA45226K160CT-LF
16	33	B	85	10	125	5.3	8	2	0.194	0.116	0.077	XRCA45336K160BT-LF
16	33	C	85	10	125	5.3	6	1.2	0.274	0.164	0.110	XRCA45336K160CT-LF
16	33	D	85	10	125	5.3	6	0.8	0.362	0.217	0.145	XRCA45336K160DT-LF
16	47	C	85	10	125	7.5	6	1	0.300	0.180	0.120	XRCA45476K160CT-LF
16	47	D	85	10	125	7.5	6	0.9	0.342	0.205	0.137	XRCA45476K160DT-LF
16	68	C	85	10	125	10.9	6	1.2	0.274	0.164	0.110	XRCA45686K160CT-LF
16	68	D	85	10	125	10.9	6	0.6	0.418	0.251	0.167	XRCA45686K160DT-LF
16	100	C	85	10	125	16.0	8	1	0.300	0.180	0.120	XRCA45107K160CT-LF
16	100	D	85	10	125	16.0	6	0.6	0.418	0.251	0.167	XRCA45107K160DT-LF
16	100	E	85	10	125	16.0	6	0.9	0.373	0.224	0.149	XRCA45107K160ET-LF
16	150	D	85	10	125	24.0	6	0.7	0.387	0.232	0.155	XRCA45157K160DT-LF

VR (V)	CR (μF)	Case	TR (°C)	Cat. Temp. (°C)†	Cat. Voltage (V)†	DCL (μA)	DF (%)	ESR (Ω)	IRMS 25°C	IRMS 85°C	IRMS 125°C	Part number
16	150	E	85	10	125	24.0	8	0.5	0.500	0.300	0.200	XRCA45157K160ET-LF
16	150	V	85	10	125	24.0	8	0.5	0.548	0.329	0.219	XRCA45157K160VT-LF
16	220	D	85	10	125	35.2	15	0.9	0.342	0.205	0.137	XRCA45227K160DT-LF
16	220	E	85	10	125	35.2	10	0.5	0.500	0.300	0.200	XRCA45227K160ET-LF
16	220	V	85	10	125	35.2	8	0.5	0.548	0.329	0.219	XRCA45227K160VT-LF
16	330	E	85	10	125	52.8	12	0.8	0.395	0.237	0.158	XRCA45337K160ET-LF
16	330	V	85	10	125	52.8	12	0.8	0.433	0.260	0.173	XRCA45337K160VT-LF
16	330	W	85	10	125	52.8	10	0.2	1.000	0.600	0.400	XRCA45337K160WT-LF
16	470	E	85	10	125	75.2	16	0.8	0.395	0.237	0.158	XRCA45477K160ET-LF
16	470	W	85	10	125	75.2	12	0.2	1.000	0.600	0.400	XRCA45477K160WT-LF
16	680	T	85	10	125	108.8	12	0.1	1.817	1.090	0.727	XRCA45687K160TW-LF
20	3.3	A	85	15	125	0.7	4	4.5	0.120	0.072	0.048	XRCA45335K200AT-LF
20	4.7	A	85	15	125	0.9	6	3	0.147	0.088	0.059	XRCA45475K200AT-LF
20	6.8	A	85	15	125	1.4	6	2.4	0.165	0.099	0.066	XRCA45685K200AT-LF
20	6.8	B	85	15	125	1.4	6	2.4	0.177	0.106	0.071	XRCA45685K200BT-LF
20	6.8	C	85	15	125	1.4	6	1.9	0.218	0.131	0.087	XRCA45685K200CT-LF
20	10	A	85	15	125	2.0	8	5	0.114	0.068	0.046	XRCA45106K200AT-LF
20	10	B	85	15	125	2.0	6	2	0.194	0.116	0.077	XRCA45106K200BT-LF
20	10	C	85	15	125	2.0	6	1.2	0.274	0.164	0.110	XRCA45106K200CT-LF
20	15	B	85	15	125	3.0	6	2	0.194	0.116	0.077	XRCA45156K200BT-LF
20	15	C	85	15	125	3.0	6	1.7	0.230	0.138	0.092	XRCA45156K200CT-LF
20	15	D	85	15	125	3.0	6	1	0.324	0.194	0.130	XRCA45156K200DT-LF
20	22	B	85	15	125	4.4	6	1.8	0.204	0.122	0.082	XRCA45226K200BT-LF
20	22	C	85	15	125	4.4	6	1.6	0.237	0.142	0.095	XRCA45226K200CT-LF
20	22	D	85	15	125	4.4	6	0.8	0.362	0.217	0.145	XRCA45226K200DT-LF
20	33	C	85	15	125	6.6	6	1.2	0.274	0.164	0.110	XRCA45336K200CT-LF
20	33	D	85	15	125	6.6	6	0.9	0.342	0.205	0.137	XRCA45336K200DT-LF
20	47	C	85	15	125	9.4	6	0.9	0.316	0.190	0.126	XRCA45476K200CT-LF
20	47	D	85	15	125	9.4	6	0.7	0.387	0.232	0.155	XRCA45476K200DT-LF
20	47	E	85	15	125	9.4	6	0.9	0.373	0.224	0.149	XRCA45476K200ET-LF
20	68	C	85	15	125	13.6	8	0.5	0.424	0.255	0.170	XRCA45686K200CT-LF
20	68	D	85	15	125	13.6	6	0.4	0.512	0.307	0.205	XRCA45686K200DT-LF
20	68	E	85	15	125	13.6	6	0.9	0.373	0.224	0.149	XRCA45686K200ET-LF
20	100	D	85	15	125	20.0	8	0.5	0.458	0.275	0.183	XRCA45107K200DT-LF
20	100	E	85	15	125	20.0	6	0.4	0.559	0.335	0.224	XRCA45107K200ET-LF
20	100	V	85	15	125	20.0	8	0.5	0.548	0.329	0.219	XRCA45107K200VT-LF
20	150	D	85	15	125	30.0	10	0.9	0.342	0.205	0.137	XRCA45157K200DT-LF
20	150	E	85	15	125	30.0	8	0.3	0.645	0.387	0.258	XRCA45157K200ET-LF
20	150	V	85	15	125	30.0	8	0.3	0.707	0.424	0.283	XRCA45157K200VT-LF
20	220	E	85	15	125	44.0	12	0.9	0.373	0.224	0.149	XRCA45227K200ET-LF
20	220	V	85	15	125	44.0	12	0.9	0.408	0.245	0.163	XRCA45227K200VT-LF
20	220	W	85	15	125	44.0	10	0.2	1.000	0.600	0.400	XRCA45227K200WT-LF
20	330	E	85	15	125	66.0	12	0.8	0.395	0.237	0.158	XRCA45337K200ET-LF
20	330	V	85	15	125	66.0	12	0.8	0.433	0.260	0.173	XRCA45337K200VT-LF
20	470	T	85	15	125	94.0	12	0.2	1.285	0.771	0.514	XRCA45477K200TW-LF
25	2.2	A	85	17	125	0.6	6	6.3	0.102	0.061	0.041	XRCA45225K250AT-LF
25	3.3	A	85	17	125	0.8	6	3.7	0.133	0.080	0.053	XRCA45335K250AT-LF
25	3.3	B	85	17	125	0.8	6	3.5	0.146	0.088	0.059	XRCA45335K250BT-LF
25	3.3	C	85	17	125	0.8	6	2.5	0.190	0.114	0.076	XRCA45335K250CT-LF
25	4.7	A	85	17	125	1.2	6	3.1	0.145	0.087	0.058	XRCA45475K250AT-LF
25	4.7	B	85	17	125	1.2	6	1.5	0.224	0.134	0.089	XRCA45475K250BT-LF
25	4.7	C	85	17	125	1.2	6	2.4	0.194	0.116	0.077	XRCA45475K250CT-LF
25	6.8	B	85	17	125	1.7	6	2.8	0.164	0.098	0.065	XRCA45685K250BT-LF
25	6.8	C	85	17	125	1.7	6	1.9	0.218	0.131	0.087	XRCA45685K250CT-LF
25	6.8	D	85	17	125	1.7	6	1.4	0.274	0.164	0.110	XRCA45685K250DT-LF
25	10	B	85	17	125	2.5	6	2.5	0.173	0.104	0.069	XRCA45106K250BT-LF
25	10	C	85	17	125	2.5	6	1.5	0.245	0.147	0.098	XRCA45106K250CT-LF
25	10	D	85	17	125	2.5	6	1	0.324	0.194	0.130	XRCA45106K250DT-LF
25	15	C	85	17	125	3.8	6	1.5	0.245	0.147	0.098	XRCA45156K250CT-LF
25	15	D	85	17	125	3.8	6	1	0.324	0.194	0.130	XRCA45156K250DT-LF
25	22	C	85	17	125	5.5	6	1.4	0.254	0.152	0.101	XRCA45226K250CT-LF
25	22	D	85	17	125	5.5	6	0.8	0.362	0.217	0.145	XRCA45226K250DT-LF

VR (V)	CR (μF)	Case	TR (°C)	Cat. Temp. (°C)†	Cat. Voltage (V)†	DCL (μA)	DF (%)	ESR (Ω)	IRMS 25°C	IRMS 85°C	IRMS 125°C	Part number
25	33	D	85	17	125	8.3	6	0.7	0.387	0.232	0.155	XRCA45336K250DT-LF
25	33	E	85	17	125	8.3	6	0.9	0.373	0.224	0.149	XRCA45336K250ET-LF
25	47	D	85	17	125	11.8	6	0.7	0.387	0.232	0.155	XRCA45476K250DT-LF
25	47	E	85	17	125	11.8	6	0.9	0.373	0.224	0.149	XRCA45476K250ET-LF
25	68	D	85	17	125	17.0	6	0.7	0.387	0.232	0.155	XRCA45686K250DT-LF
25	68	E	85	17	125	17.0	6	0.9	0.373	0.224	0.149	XRCA45686K250ET-LF
25	100	E	85	17	125	25.0	10	0.3	0.645	0.387	0.258	XRCA45107K250ET-LF
25	100	V	85	17	125	25.0	8	0.3	0.707	0.424	0.283	XRCA45107K250VT-LF
25	100	W	85	17	125	25.0	8	0.25	0.894	0.537	0.358	XRCA45107K250WT-LF
25	150	E	85	17	125	37.5	10	0.8	0.395	0.237	0.158	XRCA45157K250ET-LF
25	150	V	85	17	125	37.5	10	0.4	0.612	0.367	0.245	XRCA45157K250VT-LF
25	220	G	85	17	125	55.0	10	0.2	1.095	0.657	0.438	XRCA45227K250GW-LF
25	220	S	85	17	125	55.0	10	0.2	1.183	0.710	0.473	XRCA45227K250SW-LF
25	330	T	85	17	125	82.5	10	0.2	1.285	0.771	0.514	XRCA45337K250TW-LF
35	0.47	A	85	23	125	0.5	4	12	0.074	0.044	0.029	XRCA45474K350AT-LF
35	0.68	A	85	23	125	0.5	4	8	0.090	0.054	0.036	XRCA45684K350AT-LF
35	1	A	85	23	125	0.5	4	7.5	0.093	0.056	0.037	XRCA45105K350AT-LF
35	1	B	85	23	125	0.5	4	4	0.137	0.082	0.055	XRCA45105K350BT-LF
35	1.5	A	85	23	125	0.5	6	7	0.096	0.058	0.039	XRCA45155K350AT-LF
35	1.5	B	85	23	125	0.5	6	5	0.122	0.073	0.049	XRCA45155K350BT-LF
35	2.2	A	85	23	125	0.8	6	4.5	0.120	0.072	0.048	XRCA45225K350AT-LF
35	2.2	B	85	23	125	0.8	6	4	0.137	0.082	0.055	XRCA45225K350BT-LF
35	3.3	B	85	23	125	1.2	6	3.5	0.146	0.088	0.059	XRCA45335K350BT-LF
35	3.3	C	85	23	125	1.2	6	2.5	0.190	0.114	0.076	XRCA45335K350CT-LF
35	4.7	B	85	23	125	1.6	6	3.1	0.156	0.093	0.062	XRCA45475K350BT-LF
35	4.7	C	85	23	125	1.6	6	2.2	0.202	0.121	0.081	XRCA45475K350CT-LF
35	4.7	D	85	23	125	1.6	6	1.5	0.265	0.159	0.106	XRCA45475K350DT-LF
35	6.8	B	85	23	125	2.4	6	3	0.158	0.095	0.063	XRCA45685K350BT-LF
35	6.8	C	85	23	125	2.4	6	1.8	0.224	0.134	0.089	XRCA45685K350CT-LF
35	6.8	D	85	23	125	2.4	6	1.3	0.284	0.171	0.114	XRCA45685K350DT-LF
35	10	C	85	23	125	3.5	6	1.6	0.237	0.142	0.095	XRCA45106K350CT-LF
35	10	D	85	23	125	3.5	6	1	0.324	0.194	0.130	XRCA45106K350DT-LF
35	10	E	85	23	125	3.5	6	0.9	0.373	0.224	0.149	XRCA45106K350ET-LF
35	15	C	85	23	125	5.3	6	1.4	0.254	0.152	0.101	XRCA45156K350CT-LF
35	15	D	85	23	125	5.3	6	0.8	0.362	0.217	0.145	XRCA45156K350DT-LF
35	15	E	85	23	125	5.3	6	0.9	0.373	0.224	0.149	XRCA45156K350ET-LF
35	22	C	85	23	125	7.7	6	1.4	0.254	0.152	0.101	XRCA45226K350CT-LF
35	22	D	85	23	125	7.7	6	0.7	0.387	0.232	0.155	XRCA45226K350DT-LF
35	22	E	85	23	125	7.7	6	0.5	0.500	0.300	0.200	XRCA45226K350ET-LF
35	33	D	85	23	125	11.6	6	0.9	0.342	0.205	0.137	XRCA45336K350DT-LF
35	33	E	85	23	125	11.6	6	0.9	0.373	0.224	0.149	XRCA45336K350ET-LF
35	47	D	85	23	125	16.5	8	1.2	0.296	0.177	0.118	XRCA45476K350DT-LF
35	47	E	85	23	125	16.5	6	0.9	0.373	0.224	0.149	XRCA45476K350ET-LF
35	47	V	85	23	125	16.5	6	0.4	0.612	0.367	0.245	XRCA45476K350VT-LF
35	68	E	85	23	125	23.8	8	1	0.354	0.212	0.141	XRCA45686K350ET-LF
35	68	V	85	23	125	23.8	6	0.5	0.548	0.329	0.219	XRCA45686K350VT-LF
35	100	G	85	23	125	35.0	8	0.25	0.980	0.588	0.392	XRCA45107K350GW-LF
35	100	S	85	23	125	35.0	8	0.25	1.058	0.635	0.423	XRCA45107K350SW-LF
35	100	T	85	23	125	35.0	8	0.25	1.149	0.689	0.460	XRCA45107K350TW-LF
35	150	T	85	23	125	52.5	8	0.2	1.285	0.771	0.514	XRCA45157K350TW-LF
50	0.47	A	85	33	125	0.5	4	9.5	0.083	0.050	0.033	XRCA45474K500AT-LF
50	0.68	A	85	33	125	0.5	4	7.9	0.091	0.054	0.036	XRCA45684K500AT-LF
50	1	A	85	33	125	0.5	4	6.6	0.099	0.060	0.040	XRCA45105K500AT-LF
50	1	B	85	33	125	0.5	6	6	0.112	0.067	0.045	XRCA45105K500BT-LF
50	1.5	B	85	33	125	0.8	8	5.4	0.118	0.071	0.047	XRCA45155K500BT-LF
50	1.5	C	85	33	125	0.8	6	4.5	0.141	0.085	0.057	XRCA45155K500CT-LF
50	2.2	B	85	33	125	1.1	8	4.5	0.129	0.077	0.052	XRCA45225K500BT-LF
50	2.2	C	85	33	125	1.1	6	2.5	0.190	0.114	0.076	XRCA45225K500CT-LF
50	2.2	D	85	33	125	1.1	6	2.5	0.205	0.123	0.082	XRCA45225K500DT-LF
50	3.3	C	85	33	125	1.7	6	2	0.212	0.127	0.085	XRCA45335K500CT-LF
50	3.3	D	85	33	125	1.7	6	2	0.229	0.137	0.092	XRCA45335K500DT-LF
50	4.7	C	85	33	125	2.4	4	1.4	0.254	0.152	0.101	XRCA45475K500CT-LF

VR (V)	CR (μF)	Case	TR (°C)	Cat. Temp. (°C)†	Cat. Voltage (V)†	DCL (μA)	DF (%)	ESR (Ω)	IRMS 25°C	IRMS 85°C	IRMS 125°C	Part number
50	4.7	D	85	33	125	2.4	6	1.2	0.296	0.177	0.118	XRCA45475K500DT-LF
50	6.8	C	85	33	125	3.4	6	1	0.300	0.180	0.120	XRCA45685K500CT-LF
50	6.8	D	85	33	125	3.4	6	1	0.324	0.194	0.130	XRCA45685K500DT-LF
50	6.8	E	85	33	125	3.4	6	1.5	0.289	0.173	0.115	XRCA45685K500ET-LF
50	10	D	85	33	125	5.0	6	0.8	0.362	0.217	0.145	XRCA45106K500DT-LF
50	10	E	85	33	125	5.0	6	1	0.354	0.212	0.141	XRCA45106K500ET-LF
50	10	V	85	33	125	5.0	6	0.65	0.480	0.288	0.192	XRCA45106K500VT-LF
50	15	D	85	33	125	7.5	6	0.6	0.418	0.251	0.167	XRCA45156K500DT-LF
50	15	E	85	33	125	7.5	6	0.6	0.456	0.274	0.183	XRCA45156K500ET-LF
50	15	V	85	33	125	7.5	6	0.6	0.500	0.300	0.200	XRCA45156K500VT-LF
50	22	E	85	33	125	11.0	8	0.9	0.373	0.224	0.149	XRCA45226K500ET-LF
50	22	V	85	33	125	11.0	8	0.6	0.500	0.300	0.200	XRCA45226K500VT-LF
50	33	W	85	33	125	16.5	6	0.3	0.816	0.490	0.327	XRCA45336K500WT-LF
50	33	G	85	33	125	16.5	6	0.3	0.894	0.537	0.358	XRCA45336K500GW-LF
50	47	S	85	33	125	23.5	6	0.3	0.966	0.580	0.386	XRCA45476K500SW-LF
50	47	T	85	33	125	23.5	6	0.3	1.049	0.629	0.420	XRCA45476K500TW-LF
50	68	T	85	33	125	34.0	6	0.25	1.149	0.689	0.460	XRCA45686K500TW-LF
50	100	T	85	33	125	50.0	8	0.25	1.149	0.689	0.460	XRCA45107K500TW-LF
63	1	C	85	40	125	0.6	6	5	0.134	0.080	0.054	XRCA45105K630CT-LF
63	1.5	D	85	40	125	0.9	6	3.5	0.173	0.104	0.069	XRCA45155K630DT-LF
63	2.2	D	85	40	125	1.4	6	2	0.229	0.137	0.092	XRCA45225K630DT-LF
63	3.3	D	85	40	125	2.1	6	1.5	0.265	0.159	0.106	XRCA45335K630DT-LF
63	4.7	E	85	40	125	3.0	6	1	0.354	0.212	0.141	XRCA45475K630ET-LF
63	6.8	E	85	40	125	4.3	6	0.8	0.395	0.237	0.158	XRCA45685K630ET-LF
63	10	E	85	40	125	6.3	8	0.6	0.456	0.274	0.183	XRCA45106K630ET-LF
63	10	W	85	40	125	6.3	6	0.4	0.707	0.424	0.283	XRCA45106K630WT-LF
63	15	E	85	40	125	9.5	8	0.4	0.559	0.335	0.224	XRCA45156K630ET-LF
63	15	V	85	40	125	9.5	8	0.4	0.612	0.367	0.245	XRCA45156K630VT-LF
63	15	W	85	40	125	9.5	6	0.4	0.707	0.424	0.283	XRCA45156K630WT-LF
63	22	V	85	40	125	13.9	8	0.4	0.612	0.367	0.245	XRCA45226K630VT-LF
63	22	W	85	40	125	13.9	6	0.4	0.707	0.424	0.283	XRCA45226K630WT-LF
63	22	G	85	40	125	13.9	6	0.4	0.775	0.465	0.310	XRCA45226K630GW-LF
63	33	T	85	40	125	20.8	6	0.3	1.049	0.629	0.420	XRCA45336K630TW-LF
63	47	T	85	40	125	29.6	6	0.3	1.049	0.629	0.420	XRCA45476K630TW-LF
63	68	T	85	40	125	42.8	6	0.25	1.149	0.689	0.460	XRCA45686K630TW-LF

Characteristics list: original PDF pp.4–11 (271 part numbers).

Columns: VR rated voltage; CR nominal capacitance; Case = case size; TR rated temperature; Cat. Temp. / Cat. Voltage see note †; DCL max. leakage current at 25°C; DF max. loss (dissipation factor) at 25°C, 100Hz; ESR max. value at 25°C, 100kHz; IRMS max. allowable ripple current (A) at 100kHz, at 25°C / 85°C / 125°C.

Capacitance tolerance code in the part number: K ±10%, M ±20%.

Do not use a multimeter for measurement.

Capacitance and DF measured at 100 Hz, series equivalent circuit. Levels as printed: 'U_~=2.2°-1.0V, U_~=1.0°-0.5V' (original PDF pp.4–5) vs 'U_~=2.2 0-1V, U_~=1.00 V' (pp.6–11) — subject to manufacturer confirmation.

DCL is read after 5 minutes of connection to the circuit.

Voltage derating: 'applied at +125°C' (original PDF pp.4–5) vs 'If the ambient temperature is higher than +8 °C' as printed, value incomplete (pp.6–11) — subject to manufacturer confirmation.

For special sizes or requirements, please contact us.

XRCA45227K060CT-LF is printed for 6.3 V 220 μF case C and case D (p.5); XRCA45106K160AT-LF for 16 V 10 μF case A and case B (p.6) — subject to manufacturer confirmation.

Package code W (all G, S, T case part numbers) is not defined in How to order, which lists T = Reel only — subject to manufacturer confirmation.

Cat. Temp. (°C)† / Cat. Voltage (V)†: column headings as printed in the original PDF, values and positions as printed; the values listed under them appear to be transposed (voltages under 'Cat. Temp.', 125 under 'Cat. Voltage') — subject to manufacturer confirmation.