Company Profile

- **Construction area:** covers an area of 68 mu, construction area of 90340 m2
- **Investment amount:** 1 billion yuan (RMB)
- **Products:** chip tantalum capacitor
- **Scale layout:** Build a world-class chip tantalum capacitor R & D and production base

Nest to attract phoenix: the introduction of advanced talents and equipment, committed to high-tech research and development and innovation.
Product Development: Polymer tantalum capacitor, manganese dioxide tantalum capacitor, porcelain capacitor,
Film capacitors, inductors, resistors, integrated circuits, etc.;
We are committed to providing customers with overall electronic component supply solutions.
Application fields: Communication electronics, security monitoring, medical electronics, automotive electronics, educational equipment,
Industrial control instrument, consumer electronics, power tools and other industries,
Custom fields: civil explosion industry, drilling instruments and other fields.

Throughput






Throughput






Throughput

Continuous 9 chamber sintering furnace:

(The only domestic & technology leader)

1. Benefit forecast:
1.1 Bottleneck capacity breakthrough: capacity increased to 150-200 million/month;
1.2. Operation improvement breakthrough: annual output value increased to more than 600-1.2 million yuan/year;
1.3. Improvement of new sintering equipment: covering tooling improvement, process improvement, technical improvement, quality improvement, productivity improvement, etc.

R&d capability - Zhuzhou Hongda ISO/IEC17025 accredited Laboratory

中国合格评定国家认可委员会

实验室认可证书

（注册号：CNAS L10899）

兹证明：

株洲宏达电子股份有限公司实验中心

湖南省株洲市天元区渌江路2号，412007

符合 ISO/IEC 17025：2005《检测和校准实验室能力的通用要求》（CNAS-CL01《检测和校准实验室能力认可准则》）的要求，具备承担本证书附件所列服务能力，予以认可。

获认可的能力范围见标有相同认可注册号的证书附件，证书附件是本证书组成部分。

签发日期：2018-04-02

有效期至：2024-04-01

初次认可：2018-04-02

中国合格评定国家认可委员会授权人

中国合格评定国家认可委员会（CNAS）经国家认证认可监督管理委员会（CNCA）授权，负责实施合格评定国家认可制度。CNAS是国际实验室认可合作组织（ILAC）和亚太实验室认可合作组织（APLAC）的互认协议成员。

本证书的有效性可登陆www.cnas.org.cn获认可的机构名录查询。

R&d capability - Zhuzhou Hongda ISO/IEC17025 accredited Laboratory

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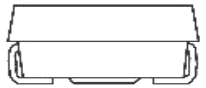
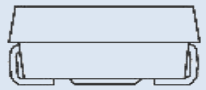
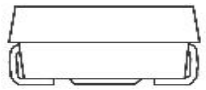
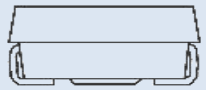
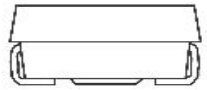
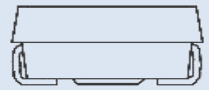
本证书的有效性可登陆www.cnas.org.cn获认可的机构名录查询。

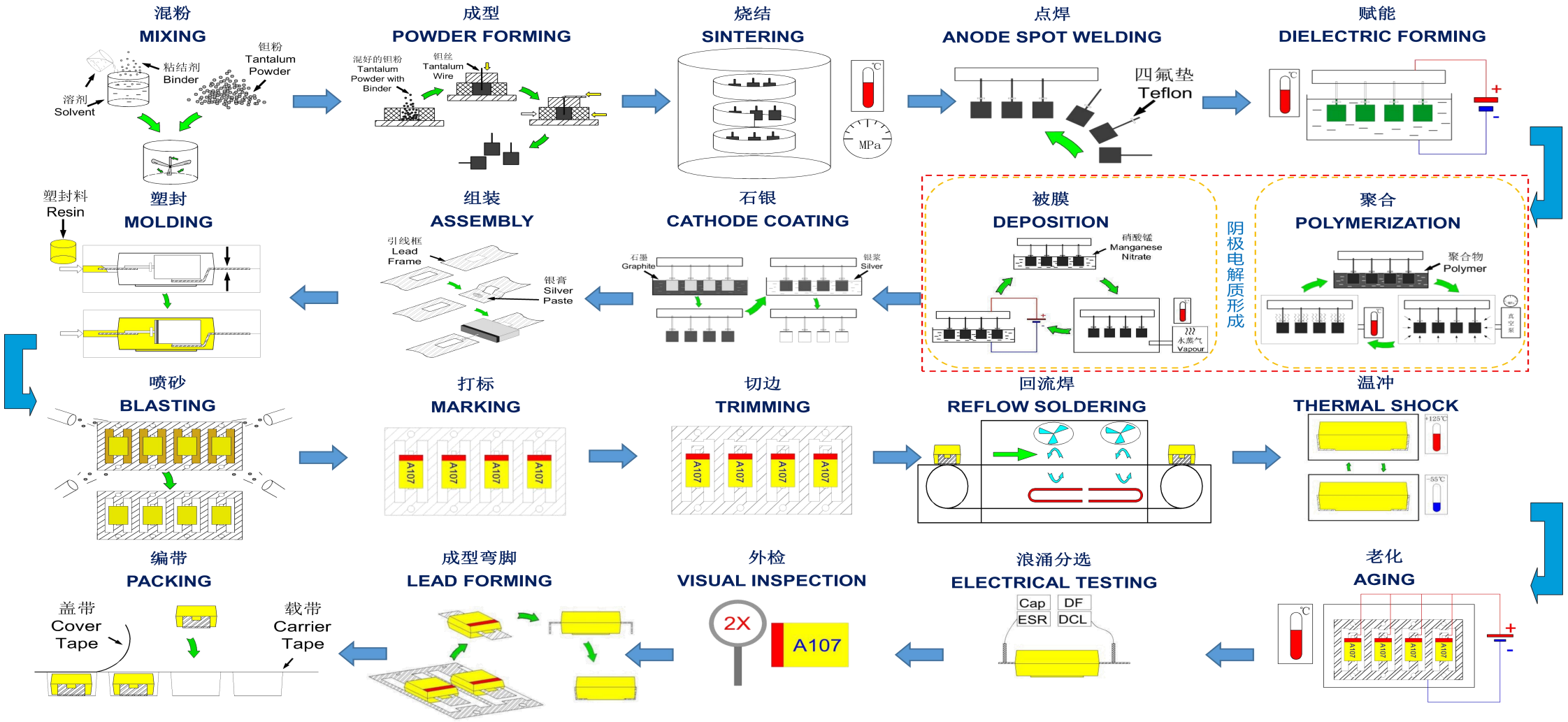
Product case

	EIA & Shell Number & Size Table (Metric: mm)							
	AVX		KEMET		PANASONIC (SANYO)		**** Xiang Yee ****	
	K	3216-10						
	S	3216-12						
	A	3216-18	A	3216-18	A14	3216-14	A	3216-16
	T	3528-12	T	3528-12	B1G、 B1S、B1	3528-11		
	H	3528-15	M	3528-15	B15G	3528-14		
	B	3528-21	B	3528-19	B2S、 B2	3528-19	B	3528-19 3528-25
	W	6032-15	U	6032-15				
	F	6032-20	L	6032-19				
	C	6032-28	C	6032-25			C	6032-25
			T	7343-12	D12	7343-1.15		
	X	7343-15	W	7343-15	D15E、D15S、D15	7343-14	H1	7343-15
	Y	7343-20	V	7343-19	D2E、 D2	7343-19	H	7343-19
	D	7343-31	D	7343-28	D3L	7343-28	D	7343-28
			Y	7343-40	D4	7343-38	E	7343-41
	E	7343-43	X	7343-43				
			J	7360-15				
			H	7360-20			F	7361-19
	V	7361-38					V	7361-36
	U	7361-43						

Product Category

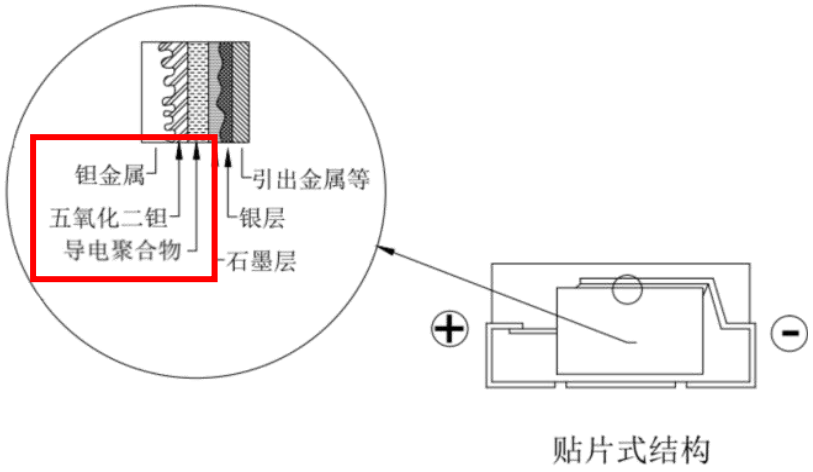
series	Executive standard	External drawing	Capacity range(μF)	Voltage range(V)	Dimension shell number
CA55	QJ/PWV517-2013		0.68～1000	2.5～50	A、B、C、H、H1、D、E、F、V
CA55H	QJ/PWV527-2019		0.47～220	2.5～50	A、B、C、H、H1、D、E、F、V
CA45	QJ/PWV109-2003		0.1～2200	2.5～50	A、B、C、D、E、V
QCA45	QJ/XY-2015		0.1～680	4～50	A、B、C、H、D、E、F、V
CA45L	QJ/PWV305-2008		0.47～1000	4～50	A、B、C、H、D、E、F、V
CA45H	QJ/PWV326-2010		0.47～220	4～50	A、B、C、H、D、E、F、V

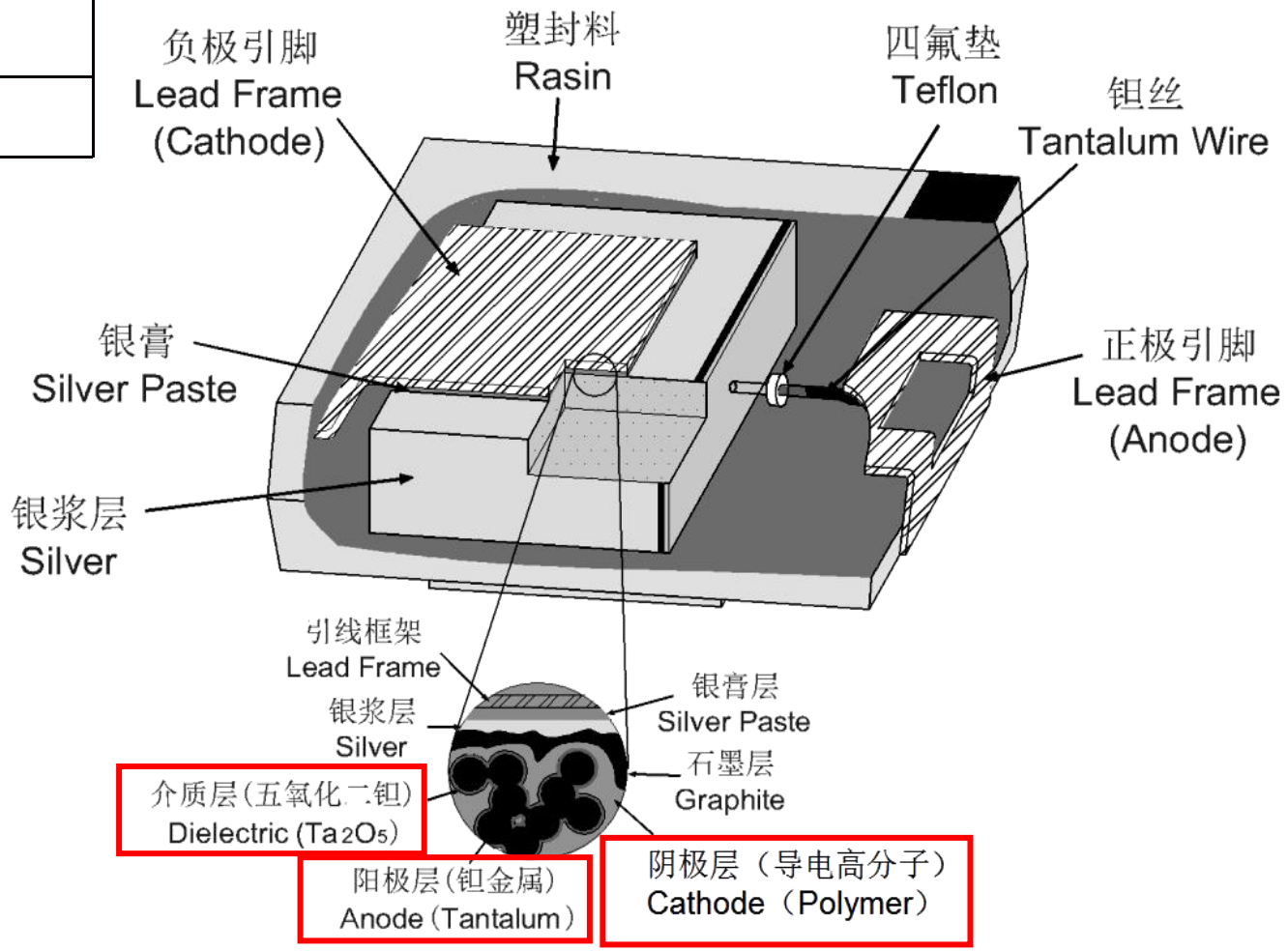
Production process flow



CA55 chip conductive polymer solid tantalum capacitor

Xiang Yee	AVX	KEMET	VISHAY
CA55	TCJ / TCM	T520 / T525 / T530	T55
CA55H	TCJ / TCM	T520 / T525 / T530	T55





CA55 chip conductive polymer solid tantalum capacitor

Product characteristics:

- Has very low ESR and low ESL[equivalent series inductance], can be used in higher frequency filter circuit;
- Accidental breakdown does not burn or explode, will not cause fire and secondary breakdown effect, excellent safety;
- Used in low-impedance switching power supply circuit, insensitive to surge current and voltage, only need to derate 10-20% use,

It can ensure high safety and lower failure rate;

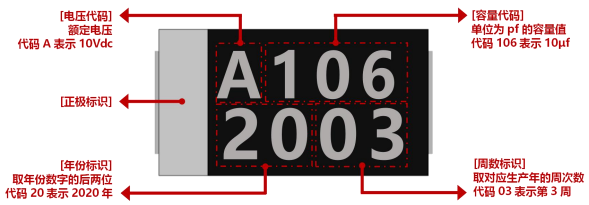
- Low internal resistance, higher ripple resistance, greatly reduce the heat generated during filtering and high-power discharge.

The filtering effect is better, and the radio emission type is easier to meet the technical requirements;

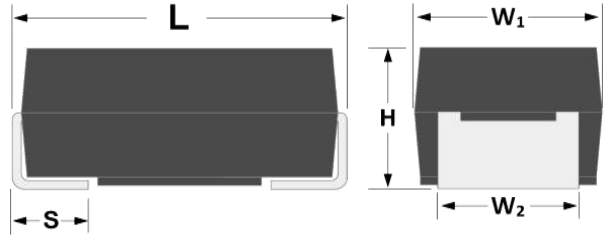
- Reliability is an order of magnitude higher than that of chip tantalum capacitors with manganese dioxide cathode;
- Can be used in high-ripple filter circuit and high-power high-frequency discharge circuit without large derating;
- Implementation standard: QJ/PWV517-2013.

Product naming:

CA55	-	D	010	M	107	T	E080
型号	隔离符	壳号尺寸 见上表	直流额定电压 2R5=2.5Vdc; 004=4Vdc; 6R3=6.3Vdc; 010=10Vdc 016=16Vdc; 020=20Vdc 025=25Vdc; 035=35Vdc 050=50Vdc; 063=63Vdc	容量允差 K=±10% M=±20%	容量代码 前 2 位数字为有效数字，单位为 Pf,第 3 位数字为指数。(即有效数字后跟多少个 0)	包装方式 T =编带	ESR 最后 3 位数字为 ESR 数值，单位 mΩ (080=80 mΩ)



Product size:



Case Code	EIA Code	EIA Metric	L	W_1	H	S	W_2
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±0.30	3.20±0.30	2.50±0.30	1.30±0.30	2.20±0.30
H	2917	7343-20	7.30±0.30	4.30±0.30	2.00±0.30	1.30±0.30	2.40±0.30
D	2917	7343-28	7.30±0.30	4.30±0.30	2.80±0.30	1.30±0.30	2.40±0.30
E	2917	7343-43	7.30±0.30	4.30±0.30	4.10±0.30	1.30±0.30	2.40±0.30
F	2924	7361-19	7.30±0.30	6.10±0.30	1.90±0.30	1.35±0.30	4.00±0.30
V	2924	7361-36	7.30±0.30	6.10±0.30	3.60±0.30	1.35±0.30	3.00±0.30

Technical parameter	All technical parameters were measured at 1 atmosphere at +25 ° C
Service temperature range	-55℃ ~ +125℃
Nominal capacity range	0.68 ~ 1000 μF at 100 Hz
Capacity tolerance	M 级(±20%);
Dc leakage current DCL	C_R≤16V，DCL=0.1CV (μA);C_R≥20V，DCL=0.01CV，Rated voltage charge 5 minutes measurement
Equivalent series resistance ESR	See the table "Product Codes and Specifications"
Pin coating	Pure tin coating (standard), gold coating or tin lead coating to separate requirements
Resistance to welding heat	No more than 3×260℃, 10s reflow welding

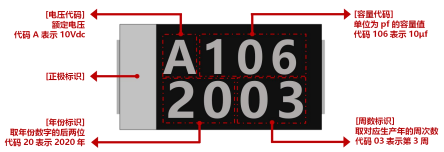
CA55H high temperature resistant chip conductive polymer tantalum capacitor

Product characteristics:

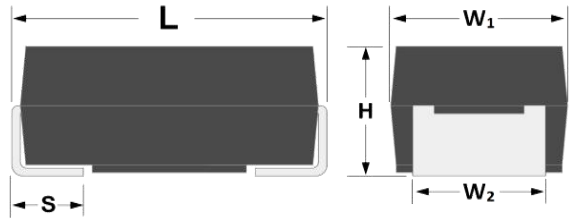
- Due to the use of high temperature resistant anode and cathode materials, the maximum allowable use temperature can reach 150℃, small leakage current;
- Has very low ESR and low ESL[equivalent series inductance], can be used in higher frequency filter circuit;
- Accidental breakdown does not burn or explode, will not cause fire and secondary breakdown effect, excellent safety;
- Used in low-impedance switching power supply circuit, insensitive to surge current and voltage, only need to derate 10-20% use,
  It can ensure high safety and lower failure rate;
- Low internal resistance, higher ripple resistance, greatly reduce the heat generated during filtering and high-power discharge.
  The filtering effect is better, and the radio emission type is easier to meet the technical requirements;
- Reliability is an order of magnitude higher than that of chip tantalum capacitors with manganese dioxide cathode;
- Can be used in high-ripple filter circuit and high-power high-frequency discharge circuit without large derating;
- Implementation standard: QJ/PWV517-2013.

Product naming:

CA55	-	D	010	M	107	T	E080
型号	隔离符	壳号尺寸 见上表	直流额定电压 2R5=2.5Vdc; 004=4Vdc; 6R3=6.3Vdc; 010=10Vdc 016=16Vdc; 020=20Vdc 025=25Vdc; 035=35Vdc 050=50Vdc; 063=63Vdc	容量允差 K=±10% M=±20%	容量代码 前 2 位数字为有效数字，单位为 pf，第 3 位数字为指数。(即有效数字后跟多少个 0)	包装方式 T=编带	ESR 最后 3 位数字为 ESR 数值，单位 mΩ (080=80 mΩ)



Product size:

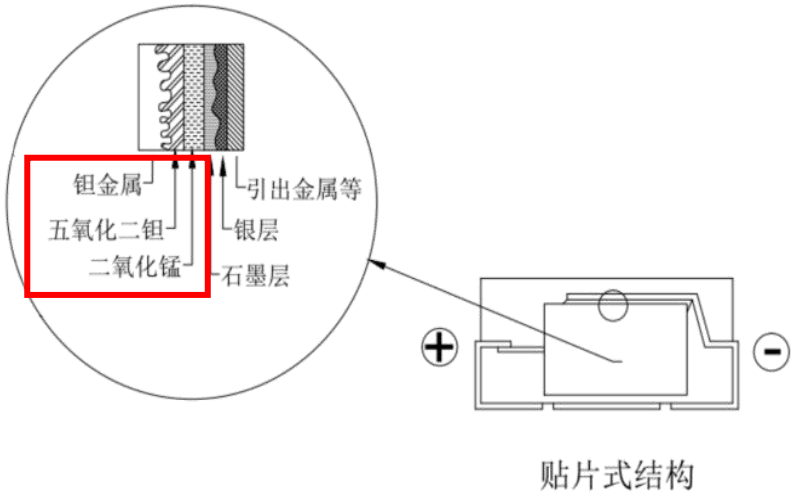


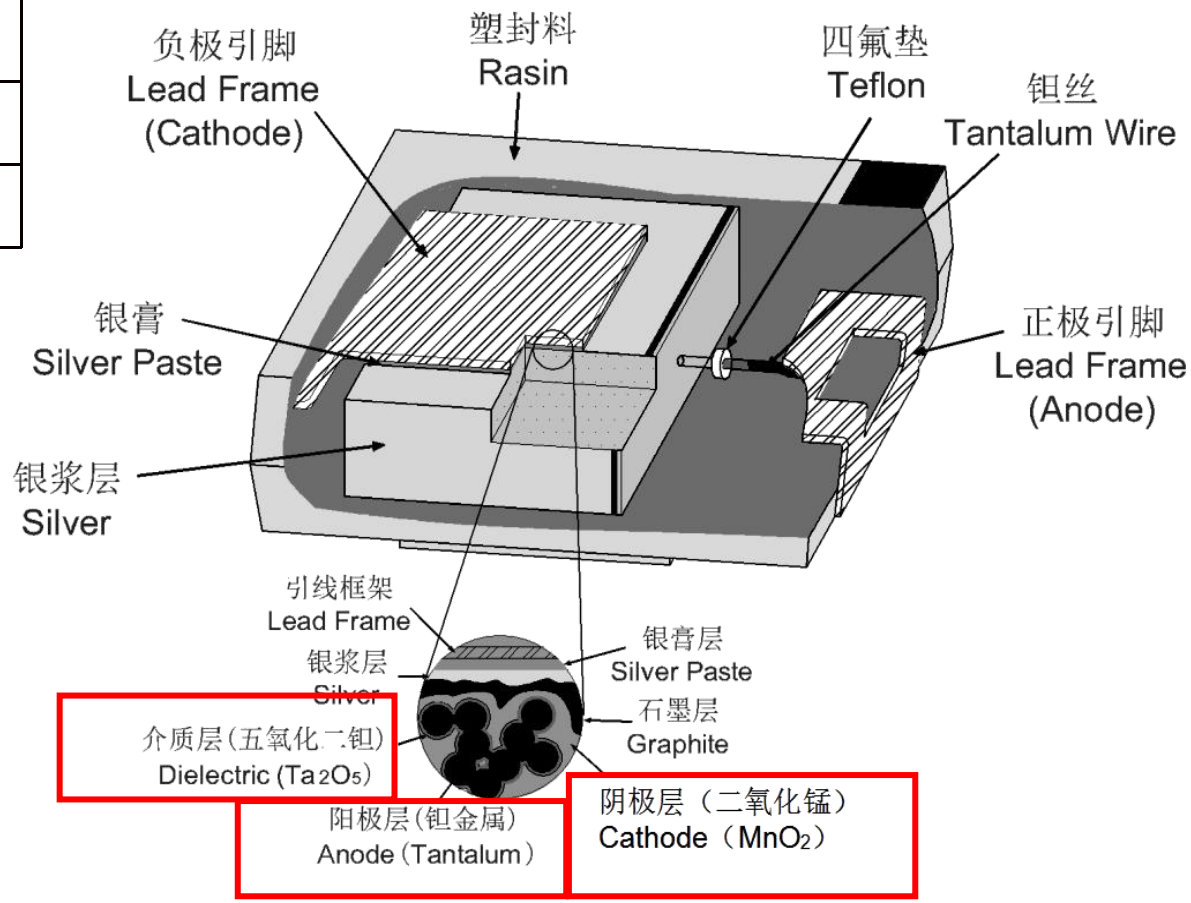
Case Code	EIA Code	EIA Metric	L	W_1	H	S	W_2
A	1206	3216-16	3.20±0.20	1.60+0.20	1.60±0.20	0.80±0.20	1.20±0.20
B	1210	3528-19	3.50±0.20	2.80±0.20	1.90±0.20	0.80±0.20	2.20±0.20
C	2312	6032-25	6.00±0.30	3.20±0.30	2.50±0.30	1.30±0.30	2.20±0.30
H	2917	7343-20	7.30±0.30	4.30±0.30	2.00±0.30	1.30±0.30	2.40±0.30
D	2917	7343-28	7.30±0.30	4.30±0.30	2.80±0.30	1.30±0.30	2.40±0.30
E	2917	7343-43	7.30±0.30	4.30±0.30	4.10±0.30	1.30±0.30	2.40±0.30
F	2924	7361-19	7.30±0.30	6.10±0.30	1.90±0.30	1.35±0.30	4.00±0.30
V	2924	7361-36	7.30±0.30	6.10±0.30	3.60±0.30	1.35±0.30	3.00±0.30

Technical parameter	All technical parameters were measured at 1 atmosphere at +25 ° C
Service temperature range	-55℃ ~ +125℃
Nominal capacity range	0.68 ~ 1000 μF at 100 Hz
Capacity tolerance	M 级(±20%);
Dc leakage current DCL	C_R≤16V，DCL=0.1CV (μA);C_R≥20V，DCL=0.01CV，Rated voltage charge 5 minutes measurement
Equivalent series resistance ESR	See the table "Product Codes and Specifications"
Pin coating	Pure tin coating (standard), gold coating or tin lead coating to separate requirements
Resistance to welding heat	No more than 3×260℃, 10s reflow welding

CA45 type chip solid electrolyte tantalum capacitor

Xiang Yee	AVX	KEMET	VISHAY
CA45	TAJ / F93 / TLJ	T489 / T490 / T491 / T493	293D
QCA45	TAJ / F93 - AJ6	T489 / T490 / T491	
CA45L	TPS / F91 / TPM	T494 / T495 / T510 / TSM	593D
CA45H	THJ	T498	TH3





CA45 type chip solid electrolyte tantalum capacitor

Product characteristics:

- It has a very high working electric field strength and is larger than any type of capacitor to ensure its miniaturization;
- It is very convenient to obtain large capacitance, and there are few competitors in power filtering, AC bypass, and other applications;
- It has a single conductivity, which is known as "polarity". When applying, current and capacitance should be connected in the positive and negative directions of the power supply

The anode (positive pole) of the device is connected to the "+" pole of the power supply, and the cathode (negative pole) is connected to the "-" pole of the power supply. If the connection is incorrect, it not only affects the capacitance

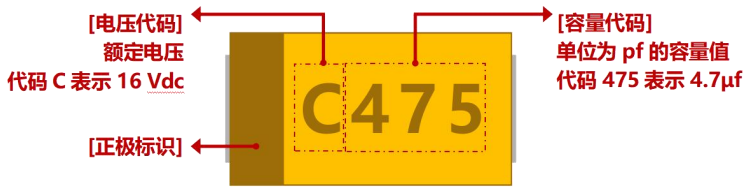
The device cannot function, and the leakage current is large. In a short period of time, the core will heat up, causing damage to the oxide film and then fail;

There is a certain upper limit of the working voltage, but this disadvantage can be compensated by combining it with transistor or integrated circuit power supply;

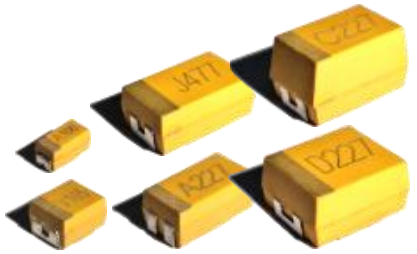
- Capable of storing electricity, charging and discharging, etc;
- Executive standard: QJ/PWV109-2003

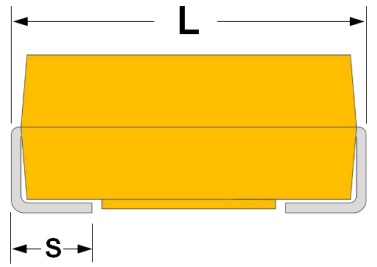
Product naming:

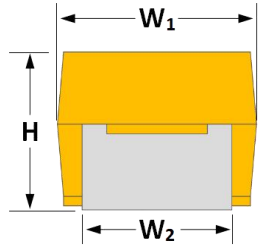
CA45	-	D	010	M	107	T
型号	隔离符	壳号尺寸 见上表	直流额定电压 2R5=2.5Vdc; 004=4Vdc;6R3=6.3Vdc; 010=10Vdc;016=16Vdc; 020=20Vdc;025=25Vdc; 035=35Vdc;050=50Vdc.	容量允差 K=±10% M=±20%	容量代码 前 2 位数字为有效数字，单位为 pF,第 3 位数字为指数。(即有效数字后跟多少个 0)	包装方式 T=编带 W=盘装



Product size:







Case Code	EIA Code	EIA Metric	L	W_1	H	S	W_2
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

Technical Parameter	All technical parameters are measured at 1 atmospheric pressure and+25 ℃									
Capacity range	0.47μF ～2200μF									
Capacity tolerance	±10%；±20%；									
Rated voltage (V_R)	≤+85℃:	2.5	4	6.3	10	16	20	25	35	50
Category voltage(V_C)	≤+125℃:	1.7	2.7	4	6.3	10	15	17	23	33
Surge voltage (V_S)	≤+85℃:	3.3	5.2	8	13	20	26	32	46	65
Surge voltage (V_S)	≤+125℃:	2.2	3.4	5	8	13	16	20	28	40
Temperature range	-55℃ to +125℃									
Lead out coating	Tin coating (standard), gold coating or tin lead coating requires additional requirements									

QCA45 Automotive Grade Chip Solid Electrolyte Tantalum Capacitor

Product characteristics:

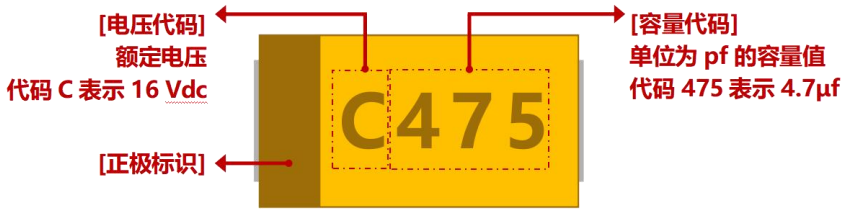
- Epoxy resin molded packaging, sheet shape, easy to integrate, polarity, superior in all aspects to conventional chip tantalum capacitors;
- Small size and light weight, which can save circuit board space required for large capacitors, energy storage, filtering, and decoupling;
- Stable electrical and storage performance, with a voltage drop of up to 125 ℃, long working life, and high reliability;

Typical applications include terminal decoupling and filtering applications in automobiles, such as DC/DC converters, portable electronic devices,
Communication electronic equipment and control units, etc;

- Executive standard: QJ/XY06-2015

Product Naming:

QCA45	-	D	010	M	107	T
型号	隔离符	壳号尺寸 见上表	直流额定电压 004=4Vdc; 6R3=6.3Vdc; 010=10Vdc; 016=16Vdc; 020=20Vdc; 025=25Vdc; 035=35Vdc; 050=50Vdc;	容量允差 K=±10% M=±20%	容量代码 前 2 位数字为有效数字，单位为 pF,第 3 位数字为指数。(即有效数字后跟多少个 0)	包装方式 T =编带



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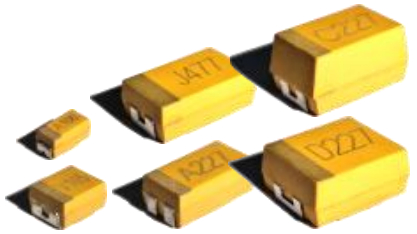
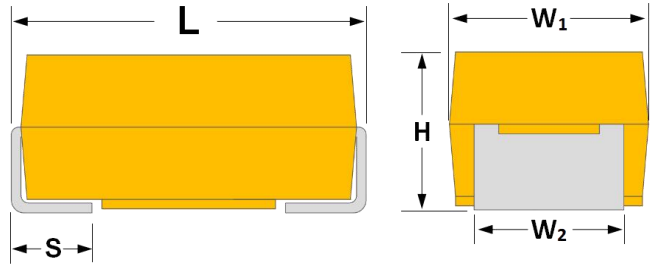




Case Code	EIA Code	EIA Metric	L	W_1	H	S	W_2
A	1206	3216-16	3.20±0.20	1.60+0.20	1.60±0.20	0.80±0.20	1.20±0.20
B	1210	3528-19	3.50±0.20	2.80±0.20	1.90±0.20	0.80±0.20	2.20±0.20
C	2312	6032-25	6.00±0.30	3.20±0.30	2.50±0.30	1.30±0.30	2.20±0.30
H	2917	7343-20	7.30±0.30	4.30±0.30	2.00±0.30	1.30±0.30	2.40±0.30
D	2917	7343-28	7.30±0.30	4.30±0.30	2.80±0.30	1.30±0.30	2.40±0.30
E	2917	7343-43	7.30±0.30	4.30±0.30	4.10±0.30	1.30±0.30	2.40±0.30
F	2924	7361-19	7.30±0.30	6.10±0.30	1.90±0.30	1.35±0.30	4.00±0.30
V	2924	7361-36	7.30±0.30	6.10±0.30	3.60±0.30	1.35±0.30	3.00±0.30

Technical Parameter	All technical parameters are measured at 1 atmospheric pressure and+25 ℃								
Capacity range	0.1μF ~680μF								
Capacity tolerance	±10%; ±20%;								
Rated voltage (V_R)	≤+85℃:	4	6.3	10	16	20	25	35	50
Category voltage(V_C)	≤+125℃:	2.7	4	6.3	10	15	17	23	33
Surge voltage (V_S)	≤+85℃:	5.2	8	13	20	26	32	46	65
Surge voltage (V_S)	≤+125℃:	3.4	5	8	13	16	20	28	40
Temperature range	-55℃ to +125℃								
Lead out coating	Tin coating (standard), gold coating or tin lead coating requires additional requirements								

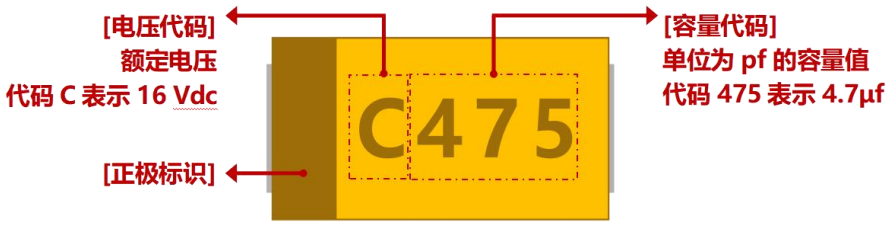
CA45L Low ESR Chip Solid Electrolyte Tantalum Capacitor

Product characteristics:

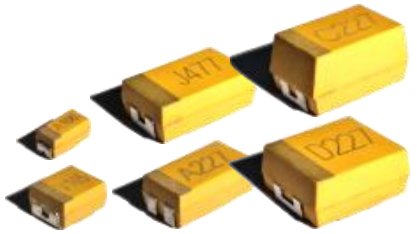
- Epoxy resin molded packaging, sheet shape, small size, light weight, easy integration, polarity;
- Compared to conventional chip tantalum capacitors, the ESR is lower, with stable electrical and storage performance, and long working life;
- Typical applications include terminal decoupling and filtering applications in industrial automation and automotive electronics, such as DC/DC converters,
Portable electronic devices, communication electronic devices, and control units;
- Executive standard: QJ/PWV305-2008

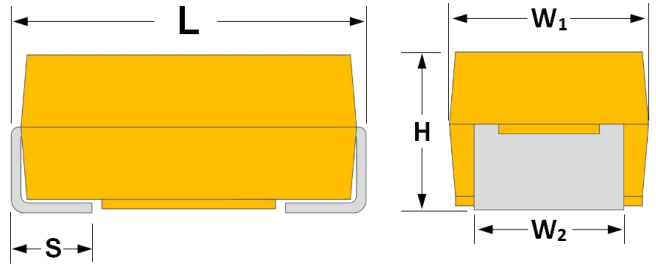
Product Naming:

CA45L	-	B	6R3	M	107	T	E700
型号	隔离符	壳号尺寸 见上表	直流额定电压 004=4Vdc;6R3=6.3Vdc; 010=10Vdc;016=16Vdc; 020=20Vdc;025=25Vdc; 035=35Vdc;050=50Vdc.	容量允差 K=±10% M=±20%	容量代码 前 2 位数字为有效数字，单位为 pF,第 3 位数字为指数。(即有效数字后跟多少个 0)	包装形式 T=编带	ESR 最后 3 位数字为 ESR 数值，单位 mΩ (700=700 mΩ)



Product size:





Case Code	EIA Code	EIA Metric	L	W_1	H	S	W_2
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±0.30	3.20±0.30	2.50±0.30	1.30±0.30	2.20±0.30
H	2917	7343-20	7.30±0.30	4.30±0.30	2.00±0.30	1.30±0.30	2.40±0.30
D	2917	7343-28	7.30±0.30	4.30±0.30	2.80±0.30	1.30±0.30	2.40±0.30
E	2917	7343-43	7.30±0.30	4.30±0.30	4.10±0.30	1.30±0.30	2.40±0.30
F	2924	7361-19	7.30±0.30	6.10±0.30	1.90±0.30	1.35±0.30	4.00±0.30
V	2924	7361-36	7.30±0.30	6.10±0.30	3.60±0.30	1.35±0.30	3.00±0.30

Technical Parameter	All technical parameters are measured at 1 atmospheric pressure and+25 ℃								
Capacity range	0.1μF ～680μF								
Capacity tolerance	±10%；±20%；								
Rated voltage (V_R)	≤+85℃:	4	6.3	10	16	20	25	35	50
Category voltage(V_C)	≤+125℃:	2.7	4	6.3	10	15	17	23	33
Surge voltage(V_S)	≤+85℃:	5.2	8	13	20	26	32	46	65
Surge voltage(V_S)	≤+125℃:	3.4	5	8	13	16	20	28	40
Temperature range	-55℃ to +125℃								
Lead out coating	Tin coating (standard), gold coating or tin lead coating requires additional requirements								

CA45H high-temperature resistant chip solid electrolyte tantalum capacitor

Product characteristics:

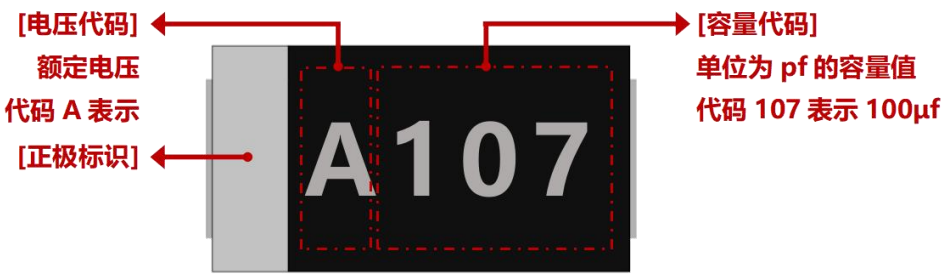
- Epoxy resin molded packaging, sheet shape, small size, light weight, easy integration, polarity;
- Working temperature can reach 150 ℃, stable electrical and storage performance, long working life, and high reliability;
- Typical applications include decoupling and filtering applications in industrial and automotive terminals, such as DC/DC converters and portable electronics

Equipment, communication electronic equipment, and control units are equivalent to a high temperature environment of 150 ℃;

- Executive standard: QJ/PWV326-2010

Product Naming:

CA45H	-	D	010	M	107	A	T
型号	隔离符	壳号尺寸 见上表	直流额定电压 004=4Vdc; 6R3=6.3Vdc 010=10Vdc; 016=16Vdc; 020=20Vdc; 025=25Vdc; 035=35Vdc; 050=50Vdc;	容量允差 K=±10% M=±20%	容量代码 前 2 位数字为有效数字，单位为 pF,第 3 位数字为指数。(即有效数字后跟多少个 0)	工作温度 A=150℃	包装方式 T=编带



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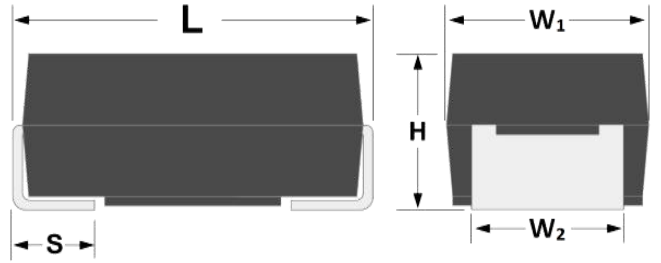


Case Code	EIA Code	EIA Metric	L	W_1	H	S	W_2
A	1206	3216-16	3.20±0.20	1.60+0.20	1.60±0.20	0.80±0.20	1.20±0.20
B	1210	3528-19	3.50±0.20	2.80±0.20	1.90±0.20	0.80±0.20	2.20±0.20
C	2312	6032-25	6.00±0.30	3.20±0.30	2.50±0.30	1.30±0.30	2.20±0.30
H	2917	7343-20	7.30±0.30	4.30±0.30	2.00±0.30	1.30±0.30	2.40±0.30
D	2917	7343-28	7.30±0.30	4.30±0.30	2.80±0.30	1.30±0.30	2.40±0.30
E	2917	7343-43	7.30±0.30	4.30±0.30	4.10±0.30	1.30±0.30	2.40±0.30
F	2924	7361-19	7.30±0.30	6.10±0.30	1.90±0.30	1.35±0.30	4.00±0.30
V	2924	7361-36	7.30±0.30	6.10±0.30	3.60±0.30	1.35±0.30	3.00±0.30

Technical Parameter	All technical parameters are measured at 1 atmospheric pressure and+25 ℃								
Capacity range	0.1μF ~680μF								
Capacity tolerance	±10%; ±20%;								
rated voltage (V_R)	≤+85℃:	4	6.3	10	16	20	25	35	50
category voltage (V_C)	≤+125℃:	2.7	4	6.3	10	15	17	23	33
surge voltage (V_S)	≤+85℃:	5.2	8	13	20	26	32	46	65
surge voltage (V_S)	≤+125℃:	3.4	5	8	13	16	20	28	40
temperature range	-55℃ to +125℃								
Lead out coating	Tin coating (standard), gold coating or tin lead coating requires additional requirements								

Development

01 miniaturization： The continuous development of surface mount technology, as well as people's demand for short, small, light and thin electronic machines, put forward higher requirements for the miniaturization of electronic components, and the further reduction of chip tantalum capacitors in the external size not only adapts to the trend of miniaturization of electronic products, but also saves expensive tantalum powder raw materials.

02 High frequency： High capacity and low ESR for greater energy transfer speed and minimal energy loss, the ESR reduction of chip tantalum capacitors can be optimized from the physical structure of the capacitor, cathode material, and bond strength between different materials.

03 High reliability： The current market puts forward higher requirements for the quality of electronic machines, along with electronic products and deep into people's lives, has involved many safety applications, the reliability of electrical components also put forward higher requirements, chip tantalum capacitors can improve reliability from material selection, processing technology, screening methods and other aspects.

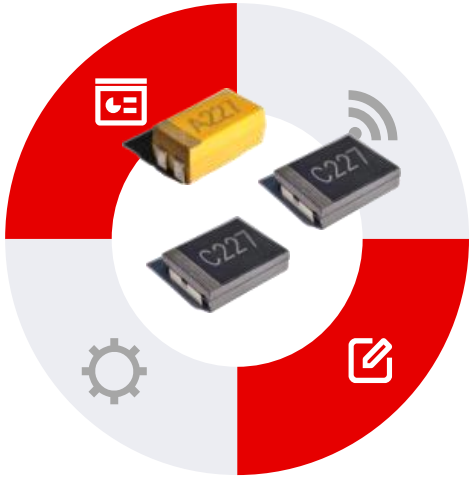
Scope of application

Civil explosion detonator industry

Medical electronics

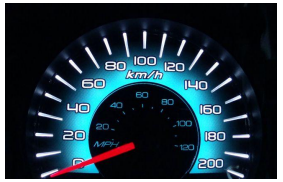
Computer storage

Communication electronics



Audio sound

Instrumentation



Automotive electronics

Consumer electronics

Main customers

Civil Explosives Detonator Industry