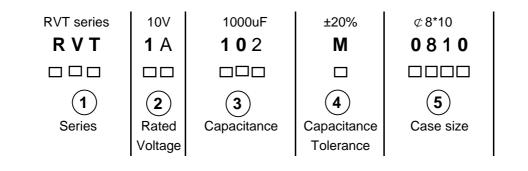
KNS 全球高端	5 CH 电容器制造			科尼盛电						
		••• –	格承							
		Specifica	luon re	or approval						
客户	名称:	涩圳市立创	由之商	务有限公司						
(Custom	er Name)			方 有限 ム り						
产品	名称:	贴片铝电解	电容器							
(Produc	t Name)	SMD Alumi	num Elec	ctrolytic Capacitor						
客户料	학号:									
(Customer p	Customer part number)									
科尼盛料号: RVT1000UF10V34RV0081 (KNSCHA number)										
-	-	SMDE/C10	00UF/10)V 8*10mm RVT						
型号 (Specifi	规格: cations))V 8*10mm RVT						
	制造				译					
(Manufacture)		(C	ustomer)					
	Approval				pproval					
<mark>拟制</mark> (Fiction)	审 核 (Chief)	核准 (Approval)		检验 (Inspect)	审 核 (Chief)	核 准 (Approval)				
刘淑芬	文]军军	徐贵南			0					
东莞市科尼	國电子有限	公司								
No. 8th flooi Songshan La	r, A3 building		(Phase ou Towr							
Email : <u>sales</u>	@knscha.com	<u>n</u> Website: <u>htt</u>	tp://ww	w.knscha.com						

PART NUMBERING REFERENCE

Product Code Guide – SMD Type

Series (RVT)Voltage (16V) Capacitance (100uF) Capacitance Tolerance (±20%) Case Diameter (¢ 6.3*5.4mm)



1.Series								
RVS	RVK	RVT	RVE	RVW	RVH	RVN	RVZ	RVL

2.Rated Voltage

Rated voltage in volts (V) is represented by a two-digit code

Voltage (WV)	4	6.3	10	16	25	35	50	63	100	400
Code	0G	0J	1A	1C	1E	1V	1H	1J	2A	4G

3.Capacitance:

Capacitance in μ F is represented by a three-digit code. The first two digits are significant and the third digit indicates the number of zeros following the significant figure. "R" represents the decimal point for capacitance under 10 μ F.

Example:

Capacitance	1	4.7	10	22	47	100	220	330	470	1000	1500
Part numbe	1R0	4R7	100	220	470	101	221	331	471	102	152

4.Tolerance:

J= -5% ~ +5%	K= -10% ~ +10%	M= -20% ~ +20%	V= -10% ~ +20%
A= 0 ~ +20%	Q= -10% ~ +30%		

5.Case size:

The first two digits indicate case diameter and the last two digits indicate case length in mm.

⊄D*L	4*5.4	5*5.4	6.3*5.4	6.3*7.7	8*6.5
Code	0405	0505	0605	0607	0806
⊄D*L	8*10.2	10*10.2	8*12	10*12	
Code	0810	1010	0812	1012	

able of spec	ification and	character	istics	1			
Part NO	CAP(uF) 120HZ 20℃	WV	DF(%) (MAX) 120HZ 20°C	Lc(µA) (MAX) 20℃	RC(mArms) (MAX) 120HZ 105℃	ESR Ω(max) 100KHZ 20℃	Life (Hrs)
34RV0081	1000	10	0.24	77	310	N/A	2000

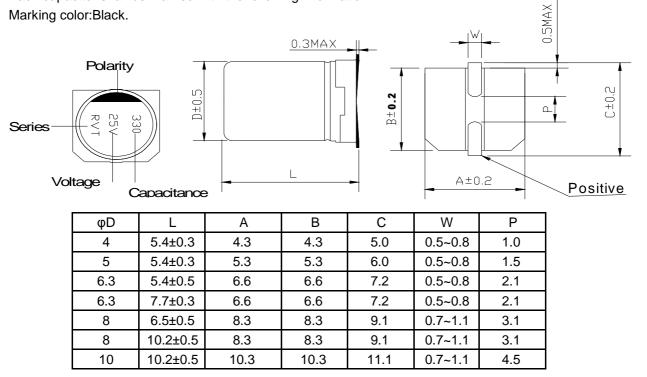
Specifications

• •											
Items				Perfor	mance						
Category Temperature Range				-40° ℃ ~	+105 ℃						
Capacitance Tolerance			-2	20 % ~	+20 %		(12	20 Hz, 2	0℃)		
Leakage Current*	≦	≦0.01CV o	r3(uA)A	fter2mi	nutes(N	/hicheve	er is gre	eatre)			
Dissipation Factor (Tanδ)				≦ 0.	18		(12	0 Hz, 20)℃)		
Ripple Current (rms)				228	mA		(1	20 Hz,	20 ℃)		
Ripple Current &	Frequency		120		1k	10k t					
Frequency Multipliers	Multiplier	Multiplier 0.75 1.00 1.20 1.35									
Temperature characteristic	UR (V)	UR (V) 6.3 10 16 25 35 5							100		
(Impedance ratio at 120Hz)	Z-25℃ / Z+2	0°C 4	3	2	2	2	2	3	3		
	Z-40℃ / Z+2	0℃ 10	8	6	4	3	3	4	4		
Endurance Applied with rated voltage after 1000 hrs at 105 $^\circ\!$	Capacitanc Dissipation Leakage Cu	factor	Less th	±30 % (han 300 specifie	% of sp	ecified v	value				
Shelf life test after 1000 hrs at 105℃with		Capacitance ChangeWithin ±30 % of initial valueDissipation factorLess than 300% of specified valueLeakage CurrentWithin specified value									
no rated voltage Standards & Remarks	Leakaye	Current		JIS C (

* For any doubt about measured values, measure the leakage current again after the following voltage treatment. Voltage treatment: Applying DC rated voltage to the capacitors for 2 hours at 105 °C.

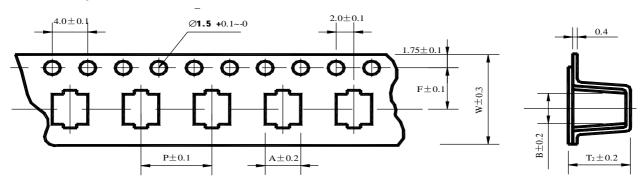
Marking and Diagram of Dimensions:

Each capacitor shall be marked with the following information. Marking color:Black.



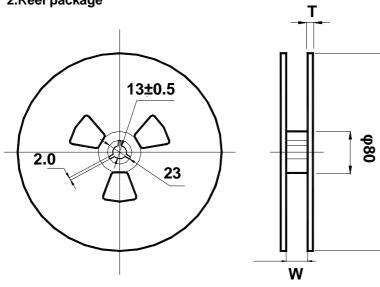
Taping Specification for SMD Type

1.Carrier Tape



φD*L	4*5.4	5*5.4	6.3*5.4	6.3*7.7	8*6.5	8*10.2	10*10.2
W	12.0	12.0	16.0	16.0	16.0	24.0	24.0
Р	8.0	12.0	12.0	12.0	16.0	16.0	16.0
F	5.5	5.5	7.5	7.5	7.5	11.5	11.5
А	4.7	6.0	7.0	7.0	8.7	8.7	10.7
В	4.7	6.0	7.0	7.0	8.7	8.7	10.7
T2	5.8	5.8	5.8	8.2	7.0	11.0	11.0

2.Reel package



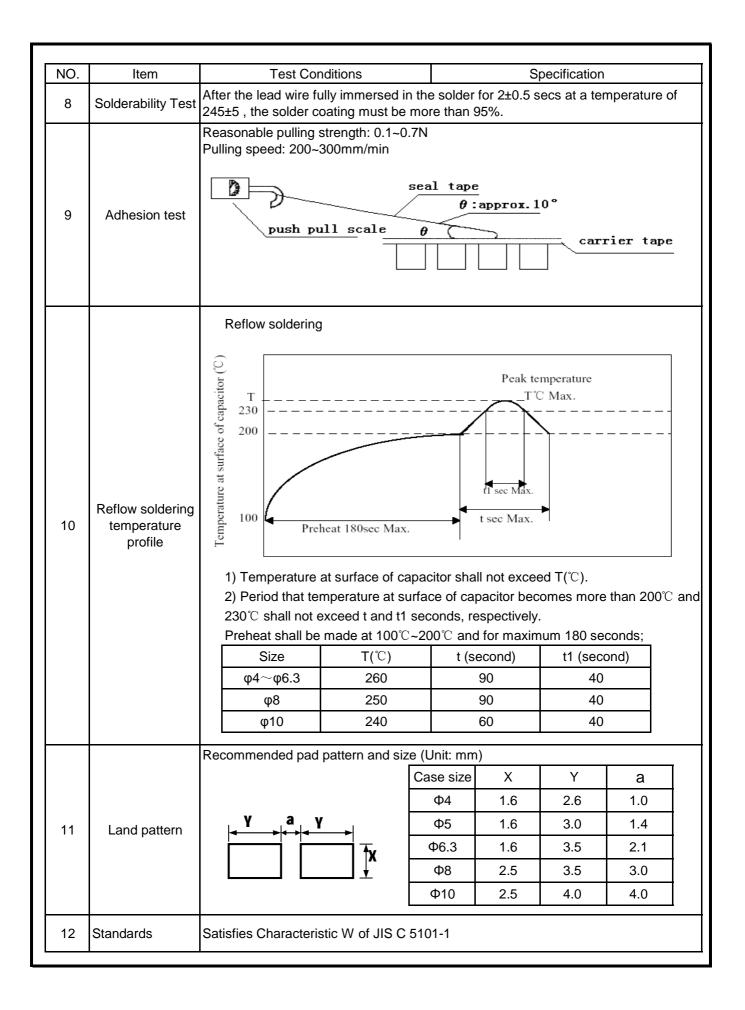
φD*L	4*5.4	5*5.4	6.3*5.4	6.3*7.7	8*6.5	8*10.2	10*10.2
W	13	13	17	17	17	25	25
А	380	380	380	380	380	380	380
Т	2.0	2.0	2.0	2.0	2.0	2.0	2.0

≻

3.Package quantity

-ackage qu	antity						Uint:pcs
φD*L	4*5.4	5*5.4	6.3*5.4	6.3*7.7	8*6.5	8*10.2	10*10.2
Q'ty/Reel	2000	1000	1000	1000	1000	500	500
Q'ty/Box	20000	10000	10000	10000	10000	5000	5000

	urance characteri														
NO.	ltem	Test Cor	nditions					T	pecifica						
					-		:/C								
			cles of	30s on		tgδ		≤Initial	specifie	ed value	;				
	Surge Voltage	Test ConditionsSpectAt 15~35°C, 1000 cycles of 30s on and 330s off. $\triangle C/C$ $\pm 15\%$ Initial sp 1 At 15~35°C, 1000 cycles of 30s on and 330s off. \boxed{ad} \boxed{ad} Applying voltage \boxed{ad} \boxed{bd} \boxed{bd} Rated Voltage $\boxed{6.3}$ 10 $\boxed{16}$ 25 Surge Voltage $\boxed{7.3}$ 11 $\boxed{18.4}$ $\boxed{29}$ Applying voltage $\boxed{7.3}$ $\boxed{11}$ $\boxed{18.4}$ $\boxed{29}$ Capacitor shall be exposed for 500±8 hours in an atmosphere of 90~95%R H. at 40±2°C, And then the Capacitor shall be subjected to standard atmospheric conditions for 1-2hours, after which measurements shall be made. $\triangle C/C$ $\pm 10\%$ Initial spCapacitor is placed in an oven whose temperature follow specific regulation to change. The specific regulation to change. The specific regulation is "+20°C (3min.)~+40°C (30 min.)~+20°C (3 min.) and it is called a cycle. And then the capacitor shall be subjected to standard atmospheric conditions for 4 hours, after which measurements shall be made. $\triangle C/C$ $\pm 25\%$ Initial spTest1.Capacitors shall be placed in own with application ofrated voltage for 2000 +48/ 0 hrs at105 °C. $\triangle C/C$ $\pm 300\%$ of $\boxed{105\pm2°C}$ for 1000+48/0 hours.Test1.The capacitor shall be subjected to standardatmospheric conditions for 4 hours, after which measurements shall be made. $\triangle C/C$ $\pm 300\%$ of $\boxed{105\pm2°C}$ for 1000+48/0 hours.Test1.The capacitor shall be subjected to standardatmospheric conditions for 4 hours, after which measurements shall be made. $\triangle C/C$ $\pm 300\%$ of <b< td=""><td>specifie</td><td>ed value</td><td>9</td></b<>	specifie	ed value	9										
1	Test		Test Conditions $15 \sim 35^{\circ}$ C, 1000 cycles of 30s on d 330s off.1plying voltageRated Voltage6.310Rated Voltage7.31118apacitor shall be exposed for 500±8 urs in an atmosphere of 90~95%R at 40±2°C, And then the Capacitor all be subjected to standard mospherjc conditions for 1-2hours, er which measurements shall be ade.1apacitor is placed in an oven whose mperature follow specific regulation to ange. The specific regulation is " +20°C nin.)~+105°C (30 min.)~+20°C (3 n.)and it is called a cycle.And then the pacitor shall be subjected to standard mospheric conditions for 4 hours, after ich measurements shall be made.Capacitors shall be placed in oven with polication ofrated voltage for 2000 +48/- tres at105 °C.1Then the capacitor shall be subjected to to 1000+48/0 hours. Then the capacitor shall be subjected to res at105 °C.1Then the capacitor shall be subjected to ndardatmospheric conditions for 4 urs, after which measurements shall be ide.1The capacitors are then stored with no tage applied at a temperature of 5±2°C for 1000+48/0 hours. Then the capacitor shall be subjected to ndardatmospheric conditions for 4 urs, after which measurements shall be ide.1The capacitor shall be subjected to ndardatmospheric conditions for 4 urs, after which measurements shall be ide.1The capacitor shall be subjected to ndardatmospheric conditions for 4 urs, after which measurements shall be ide.1The capacitor shall be subjected to regulation in each (X,Y,Z) 3 mutually rependicular directions, with a total of 6 urs. Vibratio	Phy	vsicac	No visi	ible dan	nage							
			ated Voltage6.310urge Voltage7.311citor shall be exposed for 500in an atmosphere of 90~95% $40\pm2^{\circ}C$, And then the Capacbe subjected to standardspherjc conditions for 1-2houwhich measurements shall beitor is placed in an oven whoserature follow specific regulatione. The specific regulation is " +20°C						50	63	100				
		Surge Voltage	7.3	11	18	.4	29	40	58	73	115				
		hours in an atmosph	nere of §	90~95%	R	∆C	:/C	±10%Initial measured value			value				
2	Domp Hoot Toot			-	or	tgδ		≤Initial specified value			9				
2		atmospherjc condition	ons for '	1-2hours	5,	I		≤Initial	specifie	ed value)				
						Phy	/sicac	No visible damage							
		temperature follow spe	emperature follow specific regulation to							riangle C	:/C	±25%Initial measured value			value
3	Rotational	(3 min.)~-40 ℃(30 min.)~+20℃				tgδ		≤Initial	specifie	ed value	9				
0	Temperature Test	min.)and it is called a cycle.And then the capacitor shall be subjected to standard		k	I		≤Initial	specifie	ed value	9					
			hin.)~-40 $^{\circ}C$ (30 min.)~+20 $^{\circ}C$ in.)~+105 $^{\circ}C$ (30 min.) ~+20 $^{\circ}C$ (3 .)and it is called a cycle.And then th acitor shall be subjected to standard ospheric conditions for 4 hours, after the measurements shall be made. apacitors shall be placed in oven wi lication ofrated voltage for 2000 +4 is at105 $^{\circ}C$.			Phy	vsicac	No visi	ible dan	nage					
		vhich measurements shall be made. Capacitors shall be placed in oven with application ofrated voltage for 2000 +48, hrs at105 °C.				$\triangle C$	C/C	±30% of Initial measured value							
4	Load Life Test					tgδ		≪3009	% of Init	ial spec	ified value				
		standardatmospheric	conditior	ns for 4		I		≤Initial specified value							
						Phy	vsicac	No visi	ible dan	nage					
					0	$\triangle C$	C/C	±30%	of Initia	ıl meası	ured value				
5	Shelf Life Test	105±2℃ for 1000+48/	0 hours.			tgδ		≪3009	% of Init	ial spec	ified value				
		standardatmospheric	conditior	ns for 4		I		≤Initial	specifie	ed value	9				
										-					
					d	$\triangle C$:/C	±15%I	nitial me	easured	value				
6	Vibration test					tgδ		≤Initial	specifie	ed value)				
0		hours . Vibration frequ	iency rar	nge: 10H		I		≤Initial	specifie	ed value)				
		Sonz Peak to peak a	mpiituae	: 1.5mm		Phy	vsicac	No visi	ible dan	nage					
		After reflow soldering	accordin	g to Refle	w		C/C								
7	Solder Heat	Soldering Condition a	and resto	red at ro	om			-							
	Resistance Test		et the ch	aracteris	H	-					9				
						Pny	SICAC	INO VISI	ible dan	lage					



Caution for proper use of Aluminum Electrolytic Capactors

Upon suing Aluminum Electrolytic Capactors, please pay attention to points listed below When the following tyes of electrical loads indicated below are applied to Aluminum Electrolytic Capactors, rapid deterioration of electrical property occurs:

- * reverse voltage
- * voltage exceeds rated voltage
- * rated ripple current is exceeded
- * severe chargeing/discharging

At such times, severe heat is generated, gas is emitted, then electrolyte leaks from the sealing area, and pressure relief vent operates due to internal pressure

Device circuits design considerations

- 1) Confirm installation and operating requirements for capacitors, then use them within the performance limits prescribed in this catalog or product specifications
- 2)Polarity

Aluminum electrolytic capacitors are polarized.Never apply a reverse voltage or AC voltage. Connecting with wrong polarity will short-circuit or damage the capacitor with the pressure relief vent opening early on. To identify the polarity of a capacitor, see the relevant diagram in the catalogs or product specifications, or the polarity marking on the body of the capacitor.For circuits where the polarity is occasionally reversed, use a bi-polar type of aluminum electrolytic capacitor. However, note that even bi-polar type capacitors circuits.must not be used for AC

3) Operating voltage

Do not apply an over-voltage that exceeds a rated voltage specified for the capacitors. Although capacitors specify a surge voltage that exceeds the full rated voltage, it does not assure long-term use but limited use under specific conditions

4) Ripple current

Do not apply an overcurrent that exceeds the rated ripple current specified for the capacitors. Excessive ripple current will increase heat production within the capacitors, causing the capacitors to be damaged as follows:

- * Shorten lifetime
- * Open pressure relief vent
- * Short circuit
- The rated ripple current is specified along with a specific ripple frequency.
- 5) Operating temperature (Category temperature)

Do not apply high temperatures that exceed the upper limit of the category temperature range specified for the capacitors. Using the capacitor at temperatures higher than the upper limit will considerably shorten the lifetime of the capacitor and make the pressure relief vent open. In other words, lowering ambient temperatures will extend the expected lifetime of the capacitors

6) Charging and discharging

Do not use capacitors in circuits intended for rapid charge and discharge cycle operations.

If capacitors are used in the circuits that repeat a charge and discharge with a large voltage drop or a rapid charge and discharge at a short interval cycle, capacitance will decrease and/or the capacitors will be generation. damaged by internal heat

7) Operating conditions

Do not use/expose capacitors to the following conditions:

①Direct contact with water, salt water or oil, or high condensation environment.

Direct sunlight.

③Toxic gases such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine and its compounds, bromine and its compounds and ammonium.

④ Ozone, ultraviolet rays or radiation.

⑤Extreme vibration or mechanical shock that exceeds limits in the catalogs or product specifications.

8) Mounting

①Aluminum electrolytic capacitors contain paper separators and electric-conductive electrolyte that contains and burnorganic solvent as main solvent material, both of which are flammable. If the electrolyte leaks onto a printed circuit board, it can erode the device circuit pattern, may short-circuit the copper traces, smoke and burn.

(2) For a chip type capacitor, design the land patterns of the PC board in accordance with the recommended footprint dimensions described in the catalogs or product specifications.

Installation

1)Assembling

(1) Do not try to reuse the capacitors once assembled and electrified, except only capacitors that are taken from a device for periodic inspection to measure their electrical characteristics.

2 Capacitors may have been spontaneously recharged with time by a recovery voltage

phenomenon. In this case, discharge the capacitors through a resistor of approximately $1k\Omega$ before use.

(3) Leakage current of Aluminum Electrolytic Capactors may be increased during long storage time. In this case, the capacitors shall be applied with a DC voltage which is equal to the Rated Voltage of the capacitor through aresistor of $1k\Omega$ in series for 1 hour.

(4)Confirm the rated capacitance and voltage of capacitors before installation.

⑤Confirm the polarity of capacitors before installation.

6 Do not try to use the capacitors that were dropped to the floor and so forth.

 $\bigcirc \ensuremath{\mathbb{D}}$ Do not deform the can case of a capacitor.

[®]Make sure that the terminal spacing of a capacitor equals the holes spacing on the PC board before installing the capacitor. For radial lead type capacitors, some standard pre-formed lead types are also available.

(9) Do not apply excessive mechanical force to capacitors more than the limits prescribed in the catalogs or

product specifications. Avoid excessive mechanical force while the capacitors are in the process of

vacuum-picking, placing and positioning by automatic mounting machines or cutting the lead wires by autor insertion machines

2) Cleaning assembly boards

①Do not clean capacitors with the following cleaning agents:

* Halogenated solvents: cause capacitor failures due to corrosion.

- * Alkali system solvents: corrode (dissolve) the aluminum can case.
- * Terpene and petroleum system solvents: deteriorate the rubber seal materials.
- * Xylene: deteriorates the rubber seal materials as well.
- * Acetone: erases the markings printed on a capacitor.

3)Maintenance inspections

1) For industrial use capacitors, make periodic inspections of the capacitors.

- 2) Characteristics to be inspected
- ①Significant damage in appearance: vent opening, electrolyte leakage, etc.

②Electrical characteristics: leakage current, capacitance, tanδ and other characteristics prescribed in the catalogs or product specifications If finding anything abnormal on the characteristics above, check the specifications of the capacitor and take appropriate actions such as replacement

4)Storage

Do not store capacitors at high temperature or high humidity. Store the capacitors indoors at temperatures of 5 to 35° C and humidities of less than 75%RH.In principle, aluminum electrolytic capacitors should be used within three years after production.

5)Capacitor disposal

Please consult with a local organization for the proper disposal of industrial waste. For incinerating capacitors, apply a hightemperature incineration (over 800°C). Incinerating them at temperatures lower than that may produce toxic gases such as chlorine. To prevent capacitors from explosion, punch holes in or sufficiently crush the can cases of the capacitors, then incinerate.

6)Environmental Consideration

In accordance with the EU RoHS2.0 Directive 2015/863 related to limits of hazardous substances requirements / EU regulations, the giant container products comply with the relevant provisions
 RONGJU each year in accordance with EU directives RoHS latest test, while the products inside and outside packaging are marked RoHS.

EIAJ RCR-2367B- Guideline of notabilia for fixed aluminium electrolytic capacitors for use in electronic equipment[Technical Standardization Committee on Passive Components (Established in March 1995, Revised in March 2002)].

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 MAL224699909E3

 MAL224699813E3
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 MAL215099818E3
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 AHA0810560M040R
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 AEA0810221M025R
 AEH1010331M025R
 AEA1616331M063R

 AHC0609470M035R
 AHC1012471M025R
 AEA1213101M080R
 AEA1010221M050R
 AHC1012221M035R
 AEH1213471M025R

 AEA1010221M035R
 AHC0811221M025R
 AEA1010681M010R
 AEA1010470M080R
 AHC0609150M063R
 AEA0810101M050R

 AEH10104R7M250R
 AEH1216331M050R
 AEA1616222M025R
 AEH1010470M080R
 AEA0810560M050R
 AEA1213680M100R

 AEH0810101M035R
 AEH1216331M050R
 AEA1616222M025R
 AEH1010470M080R
 AEA0810560M050R
 AEA1213680M100R