

KNSCHA focus on
capacitor production and development

We are committed to providing high quality and
safe electronic components and solutions

KNSCHA

Empowering The World

KNSCHA ELECTRONICS CO., LIMITED

KNSCHA



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safe electronic components and solutions

Product Introduction

Company Profile

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Quality Advantage

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Application Field

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Service System



-01-

STRATEGY ANALYSIS

Company Profile

KNSCHA focus on capacitor production and development

We are committed to providing high quality and safe electronic components and solutions



23 years professional experience in capacitor manufacturing

Established in 2002 Dongguan Headquater Hunan, Huizhou,
Jiangxi branch manuafactor Hangzhou branch office



480+ Professionals

Japanese experts with more than 30Y 's experience Taiwan,
HK,domestic experts with 20Y' s experience
Estibished Postdoctoral research station



2.4 Million pcs/per month

Lean production+ automation equipment Management
informationization + personnel efficiency
ISO9001. IATF16949,ISO14001 UL/VDE/ENEC/KC/CQC



Correct values

Guided by the management philosophy of Inamori Kazuo
creates value for customers
All employees growing together study duration>9500H

23

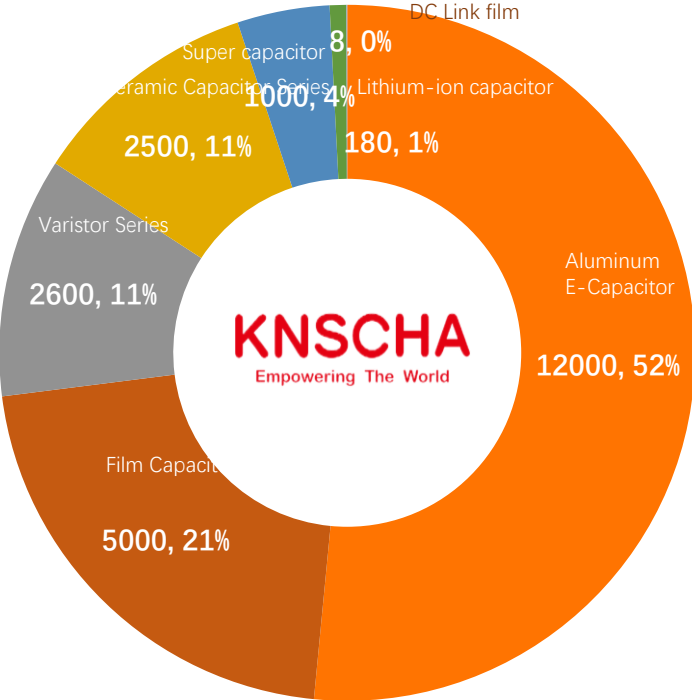
480+

2.4M

9500H

Focus Products Monthly capacity

pcs/ month



-02-
STRATEGY ANALYSIS

Quality Advantage

Guangdong KNSCHA focus on capacitor production and development

We are committed to providing high quality and safe electronic components and solutions

Certifications

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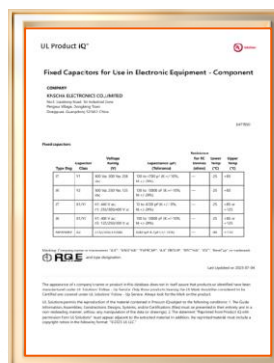
质量管理体系认证



环境管理体系认证



职业健康安全认证



Factory environment



Automatic film
winding
production line



Automatic snap-
in production
line



Aging
Workshop

Automatic Winding
Electrolytic
Production Line



Automatic
electrical
performance
testing line



Automatic snap-
in sleeve
equipment



6S

High-quality clean workshop

- Class 100,000 cleanroom
- 6S Benchmark workshop
- Temperature and humidity control
- Random inspection & full Inspection

ERP

High-efficiency automated production

- Advanced automated equipment
- Advanced automated Measurement Equipment
- ERP System for intelligent automated production process
- Management, Ensure to providing the consistency products and efficient Services

100%

Traceability

- MES management system
- Traceable to each production batch
- Monitoring and recording each production Stage
- Storing production data
- Storing product sampling



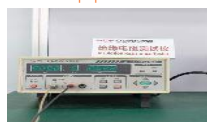
Reliability Testing Equipments



Hot wire & Vertical Burning Tester



Salt spray testing equipment



Insulation resistance tester



85° C/85%RH Constant Temperature and Humidity Test



Electronic Load meter & Adjustable power supply



Low temperature resistance test



vacuum oven



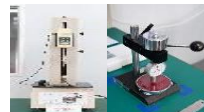
Ac variable frequency power supply



LCR meter



High temperature aging test



Pull force tester Rubber plug hardness tester



adjustable power supply



Vibration measuring instrument



Withstand pressure test instrument



waveform Lightning strike experiment



Incoming Material Inspection Equipments



digital microscope



digital microscope



Membrane square resistance test



Aluminum foil pressure tester



film thickness Micrometer



PH test instrument



Soldering welding



Aluminum shell thickness test



Flame retardant combustion tester



薄膜耐压测试仪



Environmental Protection Testing Equipment



Laboratory



Finished Product Testing

- ◆ X-Ray Testing
- ◆ Durability Testing
- ◆ High-Temperature Aging Testing
- ◆ Double 85 Constant Temperature and Humidity Testing
- ◆ Self-Ignition Testing
- ◆ Overcurrent Testing
- ◆ Vibration Testing
- ◆ Hot Wire Testing
- ◆ Terminal Strength Testing
- ◆ Solderability Testing
- ◆ Solder Heat Resistance Testing
- ◆ Lightning Strike Testing
- ◆ Vertical Burning Testing
- ◆ Low temperature testing(-60°C)

Raw Materials

- ◆ Film Surface Resistance Testing
- ◆ Film Adhesion Testing
- ◆ Film Thickness/ Dimension Testing
- ◆ Heat Resistance Testing
- ◆ Flame Retardant Combustion Testing
- ◆ Environmental Protection ROHS 2.0

ALUMINUM ELECTROLYTIC CAPACITOR

Positive Electrode Foil	Negative Electrode Foil	Electrolyti c Paper	Aluminum Shell	Electrolyte	Adhesive Granules	Sleeve	Guide Pin	
 东阳光	 日本KDK	 冠业	 凯恩集团	 奥星集团	 新宙邦	 鑫庄电子	 江苏鼎尚	 南铝电子
 NIPPON KODOSHIE CORPORATION	 SAMWHA KOREA JCC	 FEILO	 大福製紙株式会社	 联仁	 铃茂	 联华鑫	 云林	 湖北
 广东宏远	 新疆众和	 仙鹤股份						

Film CAPACITOR

Metal Film	spray material	Plastic casing	Epoxy rezsins	Epoxy powder	CP line
 嘉德利	 天龙	 金发科技	 聚合	 康隆	 谊盛科技
 TORAY 东丽	 顺达	 铭冠	 大州	 西安贝克电子科技有限公司	 三统
 诚汶		 南通东方			

We carefully select raw materials to produce high-quality capacitors



-03-

STRATEGY ANALYSIS

Product Introduction

KNSCHA focus on capacitor production and development

We are committed to providing high quality and safe electronic components and solutions

Aluminum electrolytic capacitor



**SMD
Aluminum
Electrolytic
Capacitor**



**Radial Type
Aluminum
Electrolytic
Capacitor**



**Snap-in
Aluminum
Electrolytic
Capacitor**



**Screw terminal
Aluminum
Electrolytic
Capacitor**

Capacitance: Max : 2500μF
Voltage: Max : 450V

Series	Feature
KAT	105C° for 2000 Hrs, standard product
KAC	105C° for 2000 Hrs, low leakage product
KAN	105C° for 2000 Hrs non-polar
KAE	105C° 2000~3000 Hrs, High frequency, low resistance
KAZ	105C° 2000~3000 H, High frequency, low resistance, extremely long life
KAM	105C° 2000~5000 rsH, High frequency, low resistance,
KAL	105C° 3000~5000 Hrs, High frequency, low resistance,
KAU	105C° 5000~7000 Hrs, High frequency, low resistance,

Capacitance: Max : 33000μF
Voltage: Max : 600V

Series	Feature
KGA	105C°2000Hrs
KGR	105C° 2000HrsHighripplecurrent Slimtypeincluded
KPD	105C°1,000~2000Hrs ForQuickQuickCharge
KXJ	105C°2,000HrsLowImpedance
KXK	105C°5,000HrsLowImpedance
KXW	105C°4,000~10,000Hrs LowImpedance
KXZ	105C°7,000~10,000Hrs LowImpedance
SHF	-40C°~105C°
KUA KUB KUE	125C°2000HrsHightempture 130C°2000Hrs 130C°5000Hrs

Capacitance: Max : 82000μF
Voltage: Max : 600V

Series	Feature
KLX	85C° 2000Hrs general purpose
KSG	105C° 2000Hrs general purpose
KSA	105C° 3000Hrs extremely long life, high reliability product
KSR	105C° 3000Hrs high temperature wave, high reliability product; Miniaturization can also be standardized with KSA.
KSK	105C° 5000Hrs extremely long life, highly reliable product
KSP	105C° 7000Hrs extremely long life, highly reliable product

Capacitance: Max: 82000μF
Voltage: Max : 600V

Series	Feature
SA	85C° 2000hrs General purpose
SC	85C° 3000Hrs,long file.High Ripple current
SD	85C° 5000Hrs,long file,High reliability.High Ripple current
SE	85C° 10,000Hrs,long file,High reliability.High Ripple current
SF	85C° 2,000Hrs,long file,High reliability.High Ripple current
HA	105C° 2000 Hrs,for frequency converters
HB	105C° 3000 Hrs ,long file,High Ripple current
HC	105C° 5000 Hrs,,long file,High reliability.High Ripple current
HD	105C° 10,000 Hrs long life

Typical application

SMD Aluminum Electrolytic Capacitor

- SMDEC 100μF/35V
- SMDE/C 470μF/16V
- SMDE/C 100μF/16V
- SMDEC 100μF/35V

Radial Type Aluminum Electrolytic Capacitor

- E/C 400V/10μF
- E/C 25V/470μF
- E/C 25V/220μF
- E/C25V/1000μF
- E/C 35V/680μF
- E/C 50V/4.7μF

Snap-in Aluminum Electrolytic Capacitor

- E/C 450V/470μF
- E/C 500V/330μF
- E/C 400V/330μF
- E/C 400V/680μF
- E/C 400V/150μF
- E/C 400V/120μF

Screw terminal Aluminum Electrolytic Capacitor

- E/C 200V/5600μF
- E/C 450V/330μF
- E/C 450V/330μF
- E/C 50V/10000μF
- E/C 450V/1000μF
- E/C 400V/1000μF

Solid Capacitor& solid-liquid hybrid aluminum electrolytic capacitor



SMD Type
Solid Capacitor



Radial Lead Type
Solid Capacitor



Stacked
Solid Capacitor



SMD conductive polymer
solid liquid hybrid
aluminum electrolytic
capacitor



Lead-type conductive
polymer solid-liquid
Hybrid aluminum
electrolytic capacitor

Capacitance: 4.7~ 3300μF
Voltage: 2.5 ~ 100V

Items		Performance Characteristics
Operating Temperature Range	VR	-55 ~ +105°C
Surge Voltage	VS	(VR ≤ 20V): VS = 1.15·VR (VR ≥ 25V): VS = 1.10·VR
Capacitance Range	CR	4.7~ 3300μF
Cap. Tolerance	ΔC	±20% (120Hz · 20°C)
DF (20°C · 120Hz)	δ	Not to exceed the values shown in standard ratings
ESR	ESR	Not to exceed the values shown in standard ratings

Capacitance: 6.8~ 3900μF
Voltage: 2.5 ~ 100V

Items		Performance Characteristics
Operating Temperature Range	VR	-55 ~ +105°C
Surge Voltage	VS	VS = 1.25·VR (2 ~ 16VDC); VS = 1.15·VR (20 ~ 25VDC)
Capacitance Range	CR	10 ~ 470μF
Cap. Tolerance	ΔC	±20% (120Hz · 20°C)
DF (20°C · 120Hz)	δ	Not to exceed the values shown in standard ratings
ESR	ESR	Not to exceed the values shown in standard ratings

Capacitance: 10 ~ 470μF
Voltage: 2 ~ 25V

Items		Performance Characteristics
Operating Temperature Range	VR	-55 ~ +105°C
Surge Voltage	VS	VS = 1.25·VR (2 ~ 16VDC); VS = 1.15·VR (20 ~ 25V)
Capacitance Range	CR	10 ~ 470μF
Cap. Tolerance	ΔC	±20% (120Hz · 20°C)
DF (20°C · 120Hz)	δ	Not to exceed the values shown in standard ratings
ESR	ESR	Not to exceed the values shown in standard ratings

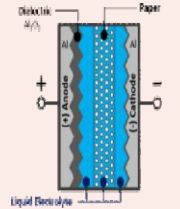
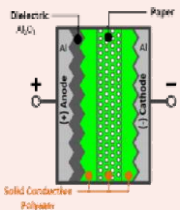
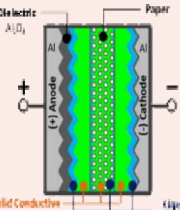
Capacitance: 10~ 1800μF
Voltage: 16 ~ 100V

Series	Feature
HMV	105C°1000Hours General standard low impedance long loadlife meet AEC-Q200
HMR	-55C°~+125C° 125C°4000Hours High operating temperature low impedance long loadlife meet AEC-Q200
HME	-55C°~+125C° Loadlife:125C°4000Hours Features:High temperature low impedance long loadlife,High ripple meet AEC-Q200
HMG	-55C°~+135C° Loadlife:135C°4000Hours: High operating,temperature low impedance AEC-Q200
HMY	-55C°~+145C° Loadlife:145C° 2000Hours Features:High temperature range low impedance
HMW	-55C°~+150C° Loadlife:150C° 1000Hours Features:High temperature range low impedance

Capacitance: 22~ 1000μF
Voltage: 16 ~ 80V

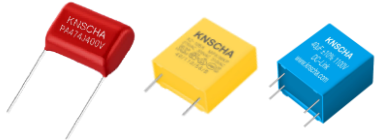
Series	Feature
HPV	-55C°~+105C° Loadlife:105C° 10000Hours Features:General standard low impedance long loadlife
HPR	-55C°~+125C° Loadlife:125C°4000Hours Features:High operating temperature low impedance long loadlife
HPD	135C°4000Hours Features:High operating temperature low impedance long loadlife
HPT	-55C°~+145C° Loadlife:145C° 2000Hours Features:High temperature range low impedance
HPK	-55C°~+150C° Loadlife:150C° 1000Hours Features:High temperature range low impedance

Characteristics	Aluminum Electrolytic Capacitor	Solid Conductive Polymer Capacitor	Hybrid Conductive Polymer Capacitor
ESR at High Frequency	● (120 ~ 1 000 mΩ)	+++ (7 ~ 15 mΩ)	++ (20 ~ 30 mΩ)
Leakage Current . ILEAK	+++ (0.01*CR*VR)	● (0.2*CR*VR)	+++ (0.01*CR*VR)
Ripple Current . IR	● (~ 600 mA)	+++ (2 000 ~ 7 000 mA)	++ (2 000 ~ 3 000 mA)
Rated Voltage . VR	+++ (~ 700 V)	● (~ 100 V)	++ (~ 400 V)
Operating Temperature Characteristics	++ (-40 ~ + 125 °C)	++ (-55 ~ + 125 °C)	+++ (-55 ~ + 150 °C)
Low Temperature Characteristics	● (-40 ~ + 125 °C)	+++ (-55 ~ + 125 °C)	++ (-55 ~ + 150 °C)
Lifetime	● (105°C / 3 000h)	+++ (105°C / 5 000h)	+++ (105°C / 10 000h)
Failure Mode	++ Open	● Short	++ Open

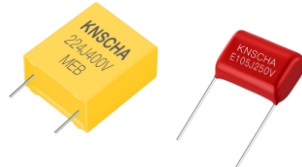
Aluminum Electrolytic	Description	Features
	Rated Voltage . VR	4 Vdc to 650 Vdc
	Cathode Material	Liquid Electrolyte
	Self-healing of Dielectric	Yes
	Package	Widest range in all sizes
	Stability	Reduced performance at low temperature
	Lifetime	Limited life at high temperature
	Reliability	Automotive AEC-Q200 qualified
Solid Conductive Polymer	Description	Features
	Rated Voltage . VR	2.5 Vdc to 100 Vdc
	Cathode Material	Solid Conductive Polymer
	Self-Healing of Dielectric	No
	ESR	Ultra-low ESR at high frequency
	Stability	Stable for low and high temperature
	Lifetime	Very stable and long life - no dry out
	Reliability	Only internal standard qualification
Hybrid Conductive Polymer	Description	Features
	Rated Voltage . VR	16 Vdc to 400 Vdc
	Cathode Material	Solid Conductive Polymer & Liquid Electrolyte
	Self-Healing of Dielectric	Yes
	ESR	Very low ESR at high frequency
	Stability	Even more stable than liquid type
	Leakage Current . ILEAK	Lower leakage current than Solid Conductive Polymer Type
	Reliability	Automotive AEC-Q200 qualified

Film capacitor series

Polypropylene film capacitors



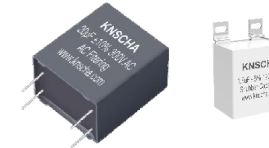
Polyester film capacitors



Cylindrical aluminim can capacitor



Metalized Polypropylene DC Link capacitor



Snubber/Pulse Capacitors Resonance Capacitor



Capacitance: X2: 0.001 μ F~4.7 μ F
CBB: 0.001 μ F~12.0 μ F

Voltage: Max: 310Vac
CBB: 1000V

Series	Feature
MPP /MPP-A	Dipped type For capacitive divider
MPB MPB-A	Box type For capacitive divider
MPT MPA	Axial cycloidal Flat oval shape
X2	Class X2 EMI
X2-THB	Temperature 110C° Humidity: 85C° +- 2% Voltage: 240Vac Duration: 2000hrs

Capacitance: Max: 200 μ F

Voltage: Max: 1600V

Series	Feature
MPE MPEX	Dipped type
MEBC MEB	Miniature size BOX
MET MEA	Axial -Cycloidal Flat Oval shape

Capacitance: Max: 280 μ F

Voltage: Max: 1200V

Series	Feature
KDB	DC filtering Cylindrical plastic ,motor drive welder
KDC	Large inverter Energy storage Cylindrical aluminim, Can dry type
KDH	DC filtering Cylindrical aluminim, Can dry type
KAC	AC filtering LCL systems
KAD	LCL systems PFC and AC filtering

Capacitance: Max: 100 μ F

Voltage: Max: 3000V

Series	Feature
MPC KFA	Motor drive Solar inverter, UPS systems Small power, AC output filter
MPH KSG	Motor drive Solar inverter ,UPS systems Small power AC output
KSC	IGBT module protection High voltage, High frequency
MMKP 82	SCR Commutating Circuit High frequency, High voltage snubber pulse, resonant circuit

Capacitance: Max: 120 μ F

Voltage: Max: 3000V

Series	Feature
KRT	Low ESR High frequency High Pulse current
KSB	High current IGBT module protection High voltage, High frequency
KAC	AC filtering LCL systems

Type	Series	Capacitance	RV	Temperature range	Features
Polypropylene film capacitors	MPP	0.01μF~4.7μF	400V/450V/630V	-40℃~+105℃	• Very low dissipation factor • Very low dielectric absorption • Very high insulation resistance • Good behaviour in frequency • Excellent self-healing properties • Very good stability
	MPP-A		275Vac (50/60hz)/400V		
	MPB	0.001μF~12.0μF	250V~1600V		
	MPB-A	0.1μF~2.2μF	275Vac (50/60hz)/400V		
Double-sided metallized film	MMKP82	0.001μF~0.47μF	250V~2000V	-40℃ ~ +110℃	
Polypropylene film capacitors (Aixal)	MPA/MPT	0.033μF~18.0μF	250V/400V/630V	-40℃~+105℃	• Excellent self-healing properties • self-healing, • high ripple current, low loss, high capacitance density, • high contact reliability
Polyester film capacitors	MPE	0.01μF~10μF	100V/250V/400V/450V/630V	-55℃ ~ +85℃	• Very wide operating temperature range • High dielectric constant • Excellent self-healing properties • Very good ratio box size/capacitance • Good stability
	MEBC/MEB	0.0047μF~10μF	100V/250V/400V/630V	-55℃ ~ +85℃	
CBB61 motor	CBB61	0.5μF~20μF	250/275/300/350/375/400/450/500Vac	-40℃~+105℃	
DC Link	MPD/MPD-THB (C3D/C3D-THB)	1.0μF~200μF	450V~1200V	-40℃~+105℃	• Excellent self-healing properties high ripple current • Suitable for high frequency applications.

Very low dissipation factor

Very low dielectric absorption

Very high insulation resistance

Good behaviour in frequency

Excellent self-healing properties

Very good stability

Typical application

- X2-THB 104K/310Vac
- X2-THB 223K/310Vac
- X2-THB 224K/310Vac
- MPB-S 105J450V
- X2-S 474K310VAC
- MMKP82 223J1000V

Type	Serial	Safety Certification	Certification Number	Capacitance	Margin of Error	RV
X2 Thin film safety capacitor	X2 X2-A X2-THB	CQC	CQC17001162416	0.001μF~4.7μF	±10 % (K);	310Vac(50HZ/60HZ)
		ENEC-VDE	40045532			
		UL CUL	E477850			
		KC	SU03110-18001B SU03110-18002B SU03110-18003B SU03110-18004B SU03110-18005B			

Metalized Polypropylene Capacitors

- Interference Suppression
- Power Factor Correction
- Resonance Capacitors
- DC Link
- IGBT Snubber
- AC Filter

Power Supply

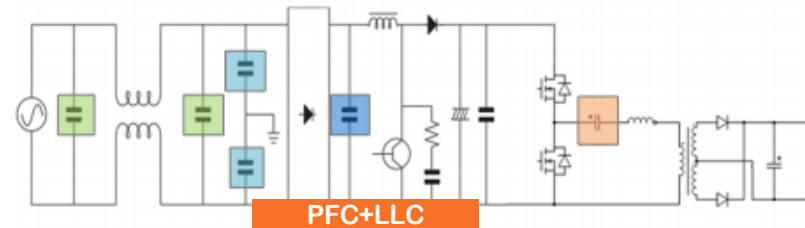
- Consumer
- Data Center
- Console
- ATX/IPC

Automotive

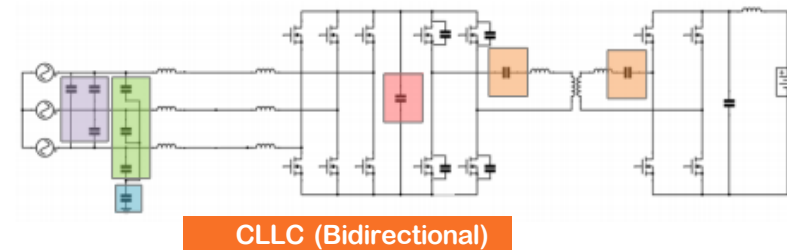
- On board charger
- EV charger
- Traction Inverter

Industrial

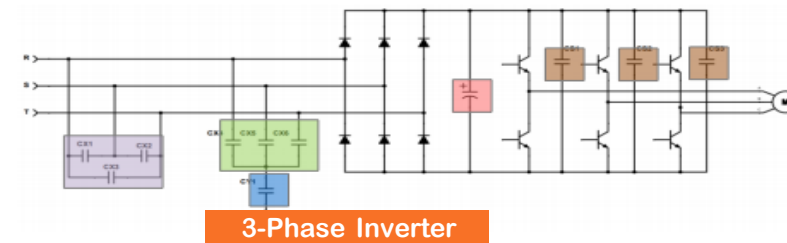
- UPS
- Motor



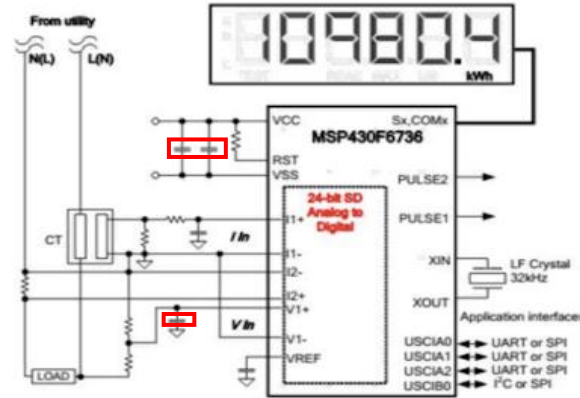
- MKP (X2)
- Y2X1 (Y2)
- MPP/MPB
- KRT (Resonant)



- X1
- X2
- Y2X1
- DC Link
- Resonant



- X1
- X2
- Y2X1
- DC Link
- IGBT Snubber



Cooperative client



Safety Capacitor X2



Application:
Capacitive Divider

Product:
X2 Series THB
Cn: 0.01 μ F~45 μ F
Vn: 305Vac

X2-THB 104K/310Vac
X2-THB 223K/310Vac
X2-THB 224K/310Vac
MPB-S 105J450V ; X2-S 474K310VAC
MMKP82 223J1000V

Safety Capacitor Y1



Application:
Capacitive Divider

Product:
Y1 Series THB
Cn: 0.01 μ F~45 μ F
Vn: 400Vac

Y1 471K/400VAC
Y1 222M/400VAC
Y1 102M/400VAC

Aluminum Electrolytic Capacitor



Application:
Power filter

Product:
SHF Series
Cn: 22 μ F~2200 μ F
Vn: 25V~400Vac
Tem: -40°C~105°C

E/C 400V/22UF E/C 25V/2200UF
E/C 25V/470UF E/C 35V/100UF
E/C 400V/15UF E/C 400V/22UF

Supper Capacitor

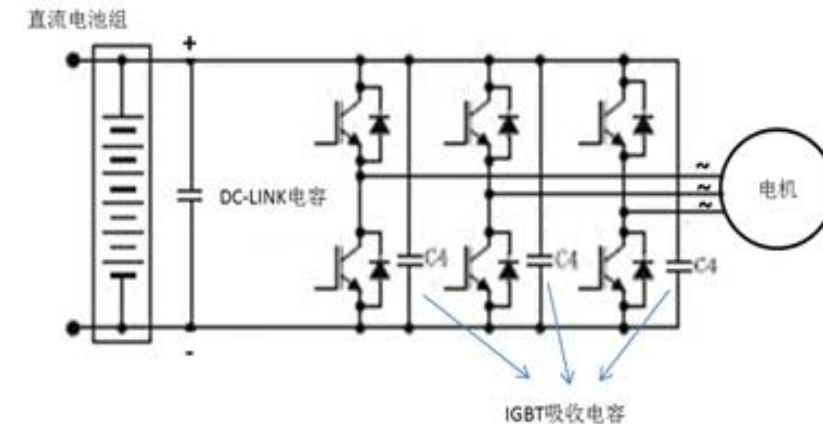
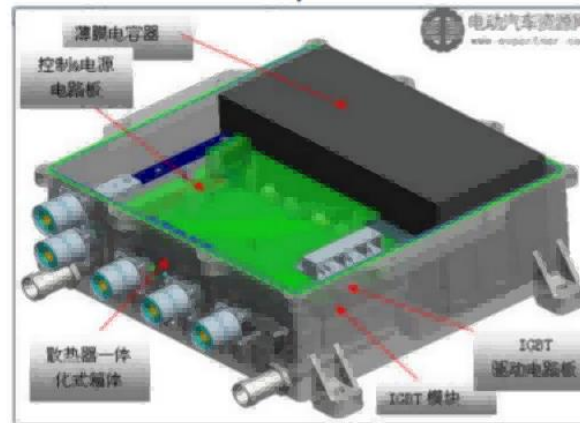


Application:
Power filter

Product:
2.7V 1F
2.7V 1.5F,
5.5V 1.5F
5.5V 5F,
3.0V 7F



DC-Link Capacitors in Inverter



Requirements

- Compact Size
- Higher Temperature Ratings
(105 ambient)
- Higher Current
- Customized Terminals
- LOW ESL
- Vibration Resistance

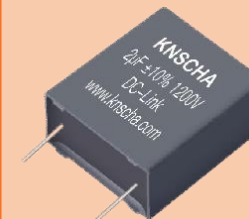
DC Link Capacitor (Customized)



Application:
DC filtering and smoothing

Product:
Cn:300 μ F~1000 μ F
Vn:450V~900Vdc
Automotive Grade
(AEC-Q200)

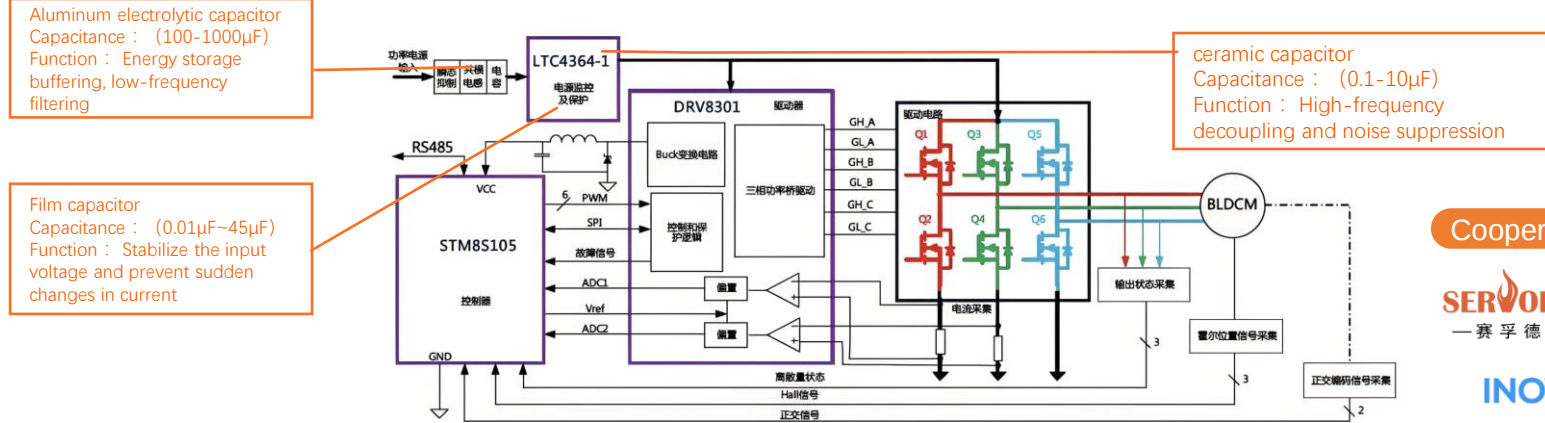
DC Link Capacitor (Customized)



Application:
DC filtering and smoothing

Product:
C3D series
Cn:1 μ F~170 μ F
Vn:450V~1200Vdc
Automotive Grade
(AEC-Q200)

Power supply + operation circuit PLC + speed regulation circuit + motor + encoder



Cooperative client



Aluminum Electrolytic Capacitor



Product:
KSK Series

Cn:100~82000 μ F
Vn: 16~500Vdc
Life time: 105°C 2000h

400V 820UF
400V1000 μ F
400V 680 μ F
500V 470 μ F

Snap-in Capacitor (SA)



Product:
SA series

Cn:820~82000 μ F
Vn: 10~250Vdc
Life time: 85°C 2000h

Safety Capacitor X2



Product:
X2 Series

Cn:0.01 μ F~45 μ F
Vn: 310Vac

X2 474K/310VAC P=22.5
X2 205K/275VAC P=27.5
X2 155K/310VAC P=27.5

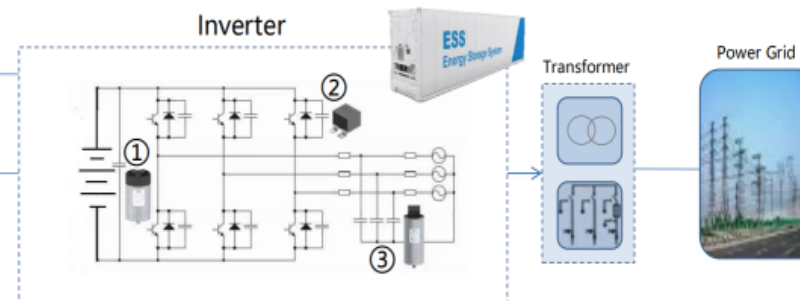


Energy Storage Systems



汇流箱
汇流箱

Customized DC Link Cap
1200Vdc 900 μ F 116X142mm
1200Vdc 450 μ F 86X142mm



Remark: DC Link Capacitors: Smaller size, higher capacitance density, and low ripple current.

Cooperative client



AOHAI

DC Link Capacitor (KDH)



Application:
DC filtering and smoothing

Product:
Cn:100 μ F~2200 μ F
Vn: 600V~1500Vdc

AC filter capacitor (KDC)



Application:
Output Filter

Product:
Cn: 1 μ F~335 μ F
Vn: 230V~850Vac

Snubber Capacitor



Application:
Snubber, IGBT Protection

Product:
Cn:0.1 μ F~4.0 μ F
Vn: 850V~2000Vdc

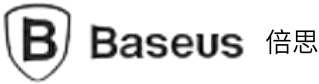
Supercapacitors & Lithium-ion capacitor

Product Name	Series	RV	Capacitance	Operating temp.C° MIN / MAX		Size mm	Features
 Supercapacitors	KSP	2.7Vdc	1~3400	-40	80	φ4~60	High energy, high power
	KSD	3Vdc	1~3400F	-40	65	φ4~60	High energy, high power, high voltage
	KHM	5.5Vdc	0.22~50F	-40	65	φ8~18 2串/3串	Low leakage current 、 extremely long life (Customized accordinly)
		6Vdc					
		7.5Vdc					
		8.1Vdc					
 Supercapacitors (Button serises)	KCE	5.5Vdc	0.47F ~ 5F	-25	70	11.5×4.5	Low leakage current 、 extremely long life
						19.5×4.5	
						24.8×6.7	
						9.5×6.5	
						13.5×6.5	
						21×7.5	
 LIC and FCB Series	LIC	2.5~3.8Vdc	10F	-40	85	6x13	High energy, high voltage, low self-discharge
			20F			8x13	
			40F			8x20	
			30F			10x13	
			80F			10x20	
			120F			10x30	
			70F			13x13	
			120F			13x20	
			250F			16x20	
			500F			16x40	
			750F			18x40	
	LICH	2.5~4.2Vdc	90F/50mAh	-40	65	8x25	High energy, high voltage, low self-discharge
			250F/120mAh			13x20	
			400F/200mAh			13x30	
			550F/80mAh			13x40	
			400F/200mAh			16x20	
			800F/400mAh			16x40	
			1300F/650mAh			18x40	

Typical application

Automotive Emergency
Start Power Supply
Five-Cell Super
Capacitor Module

Cooperative client



Typical application

State GridThree-Box Electrical
Cabinet
7 Series and 12 Series Lithium-
Ion Capacitors

Cooperative client



Lead-type lithium-ion capacitor



Typical applications



E-cigarettes



Traffic Safety and Security



Water meter



Mouse



Remote control



ETC

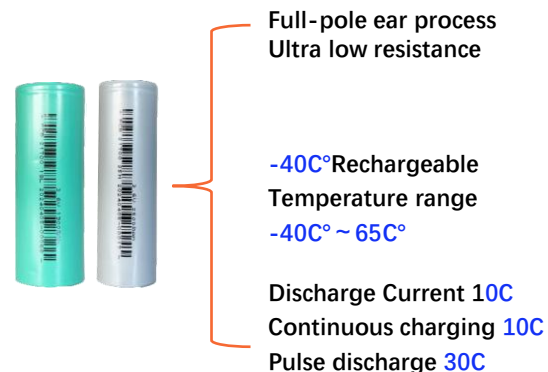


Capacitive stylus



FTC

FCB 21700 1900/2500



Typical applications



Mobile robots



Outdoor power supply

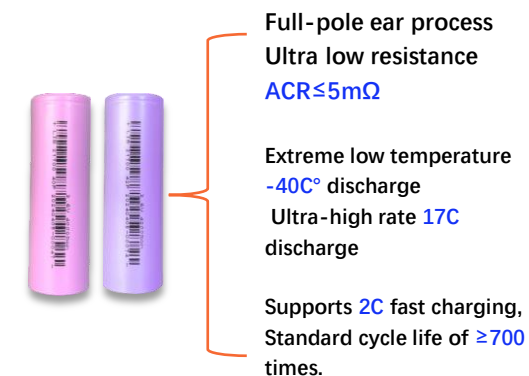


Military batteries



UPS

INR 27100 4000/4200



Typical applications



Power tools



Scooter



Unmanned aerial vehicle



Home Appliances

Product Name	Series	Certification	Certification Number	Capacitance	Capacitance Margin Of Error	RV	Climate Category	Material	Pitch (mm)
 High voltage ceramic capacitor	HT	/	/	100PF~22000pF	±10 % (K); ±20 % (M)	500~6000V	25/085/21	Y5V/Y5P/Y5U	5.08/7.5/10
 Y2 Safety ceramic capacitor	JK	CQC	CQC15001132574	100PF~10000pF	±10 % (K); ±20 % (M)	X1: AC 400 V Y2: AC 125/250/300 V	25/125/21 25/085/21	Y5P (100 pF to 1000 pF) Y5V (1000 pF to 10000 pF)	7.5
		VDE	40043092						
		ENEC10							
		UL	E477850						
 Y1 Safety ceramic capacitor	JT	CQC	CQC15001132573	10PF~4700pF	±10 % (K); ±20 % (M)	X1: AC 440 V Y1: AC 250/300/400 V	25/125/21 25/085/21	Y5P (10 pF to 1000 pF) Y5U (470 pF to 4700 pF) Y5V (1000 pF to 4700 pF)	10
		VDE	40043090						
		ENEC10							
		UL	E477850						

Typical application

- Isolated power supply
- High voltage ceramic capacitor
- 102K6KV/472K6KV

Cooperative client

- Australia National 5G Grid project

Product Name	Model	Capacitance	Certification	Certification Number	Climate Category
 Radial Piezoresistor Varistor	7D	180~821	CQC	CQC22001340597	40/105/56
	10D	180~112		CQC22001340771	
	14D	180~182		CQC22001340777	
	20D	180~182		CQC22001340778	
	7D~20D	18~182	UL	E489693	40/105/21
	7D~20D		VDE	40056157	

Typical application

- Fan light control board
- High energy 14D271

Cooperative client



Typical application

- Compact structure, small size, space saving
- Superior high temperature and high humidity performance
- Strong ability to inhibit high surge and strong current
- Application for LED power and industry power supply

Cooperative client

DREAME 追觅

Product Name	Model	Resistance Ω	Current mA	Rated Voltage Range
 NTC Thermistors	D-5~D-20	1.5~50	0.1~12	-40~+150 -40~+175
 NTC thermistor SMD type	2220(D-5)	5~60	0.4~1	-40~+170
	3220(D-7)	2.5~30	0.5~3	
	4032(D-9)	1.5~400	0.2~4	
	4032(D-11)	2.5~400	0.3~5	

-04-

STRATEGY ANALYSIS

Application Field

KNSCHA focus on capacitor production and development

We are committed to providing high quality and safe electronic components and solutions



Charging pile



Console
ATX/IPC



energy meter
Frequency convert



Data Center



High frequency
switching power



Power supply



TV



-05-
STRATEGY ANALYSIS

Service system

● ● ● KNSCHA focus on capacitor production and development

We are committed to providing high quality and safe electronic components and solutions



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Medium and High Voltage MOSFET | COOL MOSFET
Silicon Carbide MOSFET Silicon Carbide Schottky
Diode



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Hunan

Jiangxi

Huizhou

DongGuan

Hangzhou

**We respond quickly and flexibly.
Tailored to create greater value for you.
Exceeding your expectations.
Providing high-quality products and services globally.**





Enhance Employees satisfaction

Vision

To make KNSCHA a home for those who strive to become a leader in Capacitor industry to be a respected national enterprise.



Enhance Customer satisfaction

Our Values

• Love • Profession • Responsibility



Charitable giving

Mission

In our pursuit of both the material and spiritual happiness of all employees, We strive to provide warm services to our customers with love contribute to social progress.



To date,
participate in
charity 11years



KNSCHA focus on
capacitor production and development

We are committed to providing high quality and
safe electronic components and solutions

KNSCHA
Empowering The World

KNSCHA

Empowering The World

KNSCHA ELECTRONICS CO., LIMITED

THANKS

KNSCHA