

KNSCHA

Empowering The World

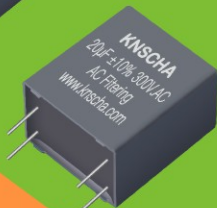
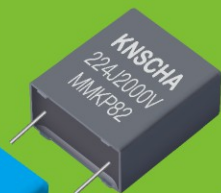
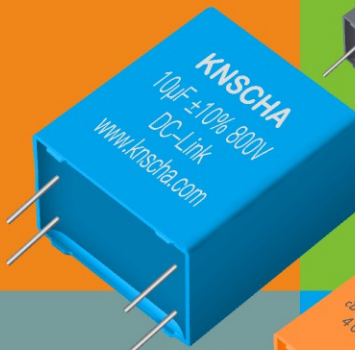
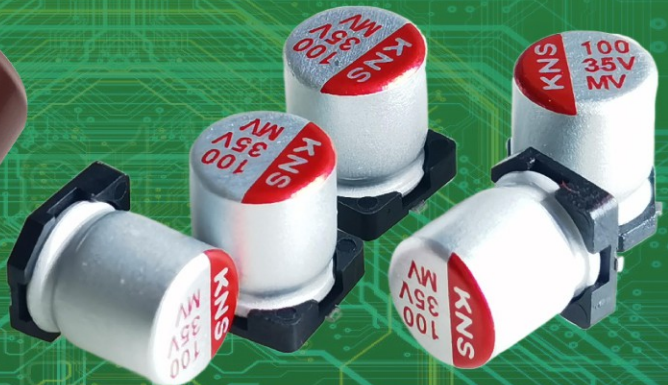
KNSCHA ELECTRONICS CO.,LIMITED

IATF16949:2016 ISO9001:2015 ISO14001:2015

KNSCHA KNS

**Aluminum
Electrolytic Capacitors**

**Conductive Polymer
Aluminum Solid Capacitors**



| KNSCHA History

KNSCHA has a long history in manufacturing passive electronics components in China.

1987

- KNSCHA started in selling all kinds of Electronic Components from our headquarters in Hong Kong.

2007

- Retkoon Electronics Co.,Ltd was founded in Dongguan, Guangdong(China),Expanding the Production Capacity of Radial Aluminum Electrolytic Capacitors.

2010

- Launched the smallest size SHW and SYJ Series TiO₂ Metallic Electrolytic Capacitor on the world , replacing the Polymer Solid Electrolytic Capacitors in some applications for better cost effective.

2013

- KNSCHA ELECTRONICS CO.,LIMITED was established in Dongguan, Guangdong(China) for Film Capacitors.
- X2 Capacitors successfully applied VDE, ENEC10, UL, KC and CQC Certifications.
- Launched 310VAC Metallized Polypropylene Film Capacitor - Class X2, THB Grade IIIB (85°C, 85% RH, 1000h at UNDC) Series For Capacitive Divider.

2015

- Set up sales subsidiary company in Hangzhou, Zhejiang(China).
- Launch KNS SMD Aluminum Electrolytic Capacitors production line.

2017

- Launched SMD power inductors and transformers
- KNSCHA Capacitors adopted by State Grid of China. Evaluated as National High-tech Enterprise in China.
- KNSCHA Capacitors are adopted by Panasonic, Siemens, Philips, Nokia, Schneider, Haier and Lenovo.

2019

- Started to produce LIC Series Lithium ion capacitors replaced super capacitors (EDLC) and lithium batteries.
- Launched KNSCHA SMD plastic varistors with a packaging size of 2220,3220,3225,4032 replacing the 7D and 10D series of radial type varistors. It has obtained UL, TÜV and CQC certifications.

2022

- Applied IATF16949:2016 Automotive Industry Management System Certification.
- KNSCHA Capacitors is applied to Xiaopeng, Geely and GAC Group new energy vehicle Charging stations.

1996

- Established a joint-venture factory in Taichung, Taiwan, Mainly OEM Japanese Brand Radial Aluminum Electrolytic Capacitors.

2009

- DONG GUAN KNSCHA ELECTRONICS CO.LTD. was founded and started to produce Snap-in, Screw Terminal Aluminum Electrolytic Capacitors with the Japanese Industrial Standard (JIS).

2012

- Launched Conductive Polymer Hybrid Aluminum Electrolytic Capacitors and High temperature 135°C Aluminum Electrolytic Capacitor,conformed to AECQ-200.
- SHF series aluminum electrolytic capacitors passed the full performance test of the components used for the energy meter of the State Grid.

2014

- JK-ET Electronic Co.,Ltd. was established in Dongguan, Guangdong(China) for Ceramic Capacitors , Metal Oxide Varistors and TMOV.
- Ceramic Capacitors Y1 and Y2 applied VDE, ENEC10, UL and CQC Certifications.
- Varistors applied VDE, UL and CQC Certifications.

2016

- Started to produce KNSCHA brand Electric Double Layer Capacitors including Cylindrical type , button type and Modules.
- Agent of Japanese Shindengen solenoids

2018

- Purchased a whole floor of high-end office building as Headquarters Base in Songshan Lake Intelligent Valley.
- Establish a laboratory and two research and development centers for Capacitors, Varistors and NTC Thermistors.

2020

- KNSCHA SEMICONDUCTOR CO.,LIMITED mainly focusing on R&D and sales of Silicon Carbide(SiC) Diodes and Silicon Carbide(SiC) MOSFETs and providing the entire power semiconductor solutions for global markets.
- Performance bench marking international brand make replacement for mature brand.

2023

- Launch NTC thermistor production line.
- Launched KNSCHA SMD plastic NTC thermistors with a packaging size of 2220,3220,3225,4032 replacing the D-5,D-7,D- 9 and D-11 series of radial type thermistors. It has obtained UL, TÜV and CQC certifications.

KNSCHA Company Profile

We're building capacitors to impact the future of technology.

KNSCHA Empowering The World

To Provide Excellent Services and Quality Electronic Components to Our Customer Worldwide.



■ Founded in 1987, **KNSCHA ELECTRONICS CO.,LIMITED(KNSCHA)** is a high-tech enterprise engaged in advanced technology R&D, production and sales.

- **KNSCHA** is committed to becoming a world-class electronic component supplier and solution provider.
- Our product lines have been widely applied to communications, consumer, industrial, computer, lighting, power supply, security, smart grid, smart meters, medical equipment, automotive and renewable energy etc.



■ Our experience R&D teams are capable to provide solutions for custom design and new product development that meet customer's application requirements.

■ We own 4 large production bases with over 280 workers, 2 R&D centers, 3 sales centers, mainly provide service to different markets in Asia, America and Europe.



■ Advance Manufacturing and Testing Equipment

- KNSCHA state-of-art facilities is operate with high quality standard, using Lean manufacturing processes with a comprehensive ISO 9001/14001 and IATF 16949 management systems.

■ Certification

- Product certification and quality management.



■ Management Team

- KNSCHA management team comprised of professionals and technical experts hailing from internationally renowned electronic component brands.
- Our team excels in management, product research and development, manufacturing, and quality control.

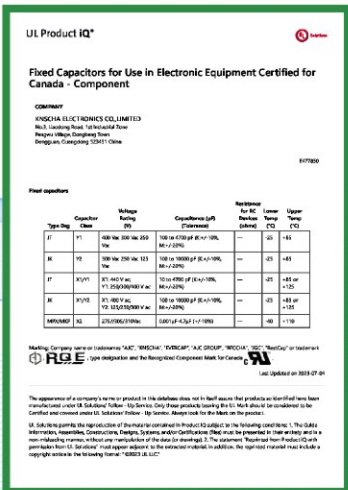
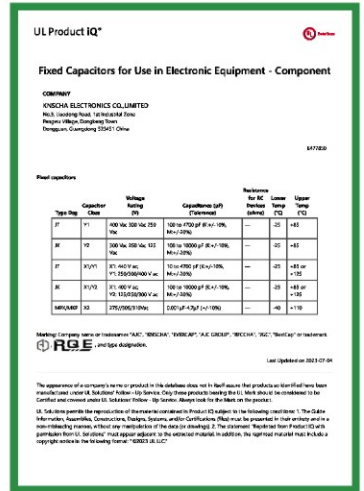
■ Customer Service and Support

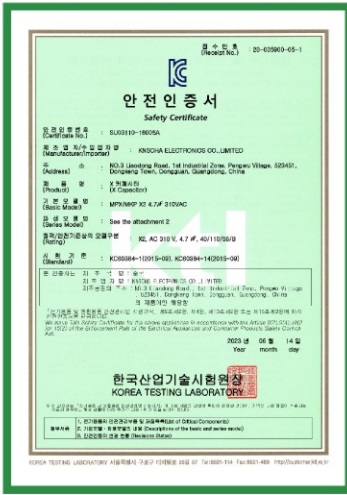
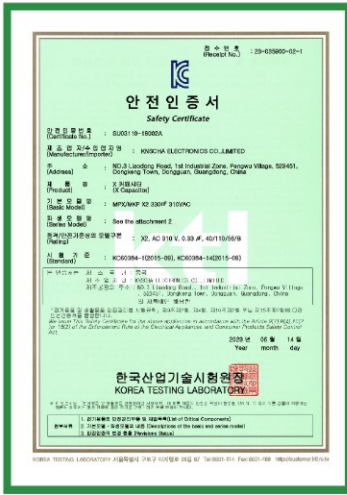
- KNSCHA has a team of customer services and technical support that work round-the-clock to support the needs and responsive to our customers.

■ Wide Range of Products

- KNSCHA is an innovative technology enterprise that focuses mainly on researching, manufacturing and selling aluminum electrolytic capacitors including SMD type, lead type, terminal type (snap-in type & screw type) etc.
- KNSCHA is a professional manufacturer of Super Capacitors including Electric Double Layer Capacitors and Lithium Ion Capacitors etc.
- KNSCHA offers a broad range of film capacitors including DC-Link Capacitor, AC-Filter Capacitor, Snubber/Pulse Capacitor, EMI Film Capacitor, General Purpose DC Film Capacitor etc.
- We are specialized in production of Ceramic Capacitor including Safety Y1 & Y2 Standard Certified Type and High Voltage Type, Radial lead multilayer ceramic capacitors, Metal Oxide Varistors including Standard Type, High Surge Type, Combination Wave Type, TMOV and Thermistors etc.
- We offer a broad range of Power Inductors and transformers etc.
- KNSCHA is committed to the research and industrialization of silicon carbide power devices as its core, benchmarking against international first tier brands, advanced packaging, and launching silicon carbide diodes and silicon carbide MOSFETs.

KNSCHA Honor and Certificate





| Our Factory



| KNSCHA Exhibition History

Oct,2017 HK Electronica Asia



April,2019 EXPO Electronica fair in Moscow



April,2018 EXPO Electronica fair in Moscow



July,2019 FIEE Electronica fair in Brazil



Oct,2018 HK Electronica Asia



Sept,2019 India Munich Electronica



Nov,2018 Electronica in Munich



April,2023 EXPO Electronica fair in Moscow



| KNSCHA Aluminum Electrolytic Capacitors

◆ Radial Aluminum Electrolytic Capacitors

● 105°C Standard

SSK Series

Standard
105°C 2000~3000Hrs



SHC Series

Standard, general
105°C 2000~5000Hrs



● Miniaturized For Charger

- Low Impedance
- High Ripple



SSD Series

- Low ESR
- High Ripple

105°C 2000~3000Hrs



SMF Series

- Low ESR
- Long Life
- High Ripple

105°C 4000~6000Hrs



STR Series

- Low ESR
- High Ripple
- Miniaturized

105°C 4000~6000Hrs



KHG Series

- Low ESR
- High Ripple

105°C 4000~10000Hrs



● For Audio Equipment and power supply

SHT Series

- Long Life
- High Ripple
- Ultra Low ESR

105°C 6000~8000Hrs



SHF Series

- Long Life
- Miniaturized
- Low ESR
- High Ripple

105°C 5000~10000Hrs



ST-200 Series

- High Reliability
- High Ripple
- Ultra Long Life
- Low ESR

105°C 20000Hrs



SHG Series

- Long Life
- High Ripple
- Low ESR
- Wide Temp-55°C

105°C 7000~10000Hrs

● High reliability, long life. Especially designed for LED driver, electronic ballast, electronic energy saving lamp



● High Temperature



SHX Series

- Low ESR
- Long Life
- High Ripple

125°C 5000~10000Hrs

- Suitable for automotive power supply devices



SX30 Series

- Low ESR
- Long Life
- High Ripple

130°C 2000~5000Hrs

- Suitable for automotive power supply devices



● Miniaturized



SPD Series

- Low ESR
- High Ripple

105°C 1000~2000Hrs

- For GaN fast charger



MHT Series

- Low ESR
- High Ripple

105°C 2000~4000Hrs

- For GaN fast charger



SSM Series

- Low ESR
- Long Life
- High Ripple

105°C 5000~6000Hrs



SPS Series

- Low ESR
- Long Life
- High Ripple

105°C 5000~10000Hrs

- For GaN fast charger



SHG Series

- Long Life
- High Ripple
- Ultra Low ESR
- Wide Temp-55°C

105°C 7000~10000Hrs



● TiO2 Metallic Electrolytic Capacitors

SHW Series

- Long Life
- Ultra Low ESR
- Ultra-miniaturized

105°C 8000~12000Hrs

- Replaced Solid Capacitors of some application

● For Smart Meter

SHF Series

- Long Life
- High Ripple
- Ultra Low ESR

105°C 5000~10000Hrs

- For Low temperature starting



SYJ Series

- Ultra-miniaturized
- Long Life
- Large Capacity
- High Ripple

105°C 5000Hrs



● Non-polarity standard

KBP Series

- Non-polarity standard product

85°C 2000hours

- Suitable for DC two-way return circuit



KHN Series

- Non-polarity standard product

105°C 2000hours

- Suitable for DC two-way return circuit



◆ Snap-in Aluminum Electrolytic Capacitors

SLX Series

- Standard

85°C 2000Hrs



STH Series

- Standard

105°C 2000Hrs



● Miniaturized

SMO Series

- Long Life
- Ultra Miniaturized
- High Ripple Current

105°C 3000Hrs

- For miniaturized and compact server power supply and switching power supply



SHA Series

- Long Life
- High Ripple Current

105°C 3000Hrs



SMZ Series

- Long life
- High reliability
- High ripple current

105°C 5000Hrs



◆ Screw Terminal Aluminum Electrolytic Capacitors

● Miniaturized

SA Series

- Standard

85°C 2000Hrs

- Suitable for Frequency converters, UPS and Electric welding machine



SB Series

- Standard
- miniaturized

85°C 2000Hrs

- Suitable for Frequency converters and UPS



SD Series

- Long Life
- High Reliability
- High Ripple Current

85°C 5000Hrs

- Suitable for Frequency converters, Uninterruptible power supplies, Solar and Wind power generator



SC Series

- Long Life
- High Ripple Current

85°C 3000Hrs

- Suitable for Industrial machinery, Power converter, Communication sets and Test equipment



SE Series

- Long Life
- High Reliability
- High Ripple Current

85°C 10000Hrs

- Suitable for Frequency converters, UPS, Professional power supplies, Solar and wind power generator



SF Series

- Long Life
- High Reliability
- High Ripple Current

85°C 20000Hrs

- Suitable for Train, Mechanical equipment and Large control equipment



◆ Screw Terminal Aluminum Electrolytic Capacitors

HA Series

- Standard

105°C 2000Hrs

- Suitable for Frequency converters, Professional power supplies and Electric welding machine



HB Series

- Long Life
- High Ripple Current

105°C 3000Hrs

- Suitable for Frequency converters, Professional power supplies and Solar



HD Series

- Long Life
- High Reliability
- High Ripple Current

105°C 10000Hrs

- Suitable for Frequency converters, Traction and Professional power supplies



HC Series

- Long Life
- High Reliability
- High Ripple Current

105°C 5000Hrs

- Suitable for Frequency converters, Traction and Professional power supplies



◆ SMD Aluminum Electrolytic Capacitors

KAS Series

- Standard
- 4.5mm Height

105°C 1000Hrs



KAT Series

- Standard

105°C 2000Hrs



RVT Series

- Standard

105°C 2000Hrs



RST Series

- Standard

105°C 2000Hrs



VT Series

- Standard

105°C 2000Hrs



CK Series

- Standard

105°C 2000Hrs



CS Series

- Standard

105°C 2000Hrs



XT Series

- Standard

105°C 2000Hrs



● Low Impedance

KAE Series

- Low Impedance

105°C 2000~3000Hrs



KAZ Series

- Low Impedance

105°C 2000~3000Hrs

- Impedance 50 ~ 70% less than KAE series



KAM Series

- Small size
- Ultra-low Impedance

105°C 2000~5000Hrs

- Impedance 20 ~ 30% less than KAZ series



◆ SMD Aluminum Electrolytic Capacitors

- Low Impedance
- Long Life

KAL Series

- Low Impedance
 - High Ripple Current
- 105°C 3000~5000Hrs



KAU Series

- Low Impedance
 - High Ripple Current
- 105°C 5000~7000Hrs



KAY Series

- Low Impedance
 - High Ripple Current
- 105°C 7000~10000Hrs



- High voltage

KAG Series

- High Ripple Current
- 105°C 2000~3000Hrs



KAD Series

- High Ripple Current
- 105°C 5000~7000Hrs



KAP Series

- High Ripple Current
- 105°C 7000~10000Hrs



- Long Life
- High Reliability

KAF Series

- Long Life
- 105°C 3000~5000Hrs



KAR Series

- Long Life
- 105°C 5000~7000Hrs



- High Temperature

KAH Series

- Low Impedance
 - High Ripple Current
- 125°C 2000Hrs



- For Audio Equipment

KAK Series

85°C 2000Hrs

- Suitable for a high grade of audio reproduction



KAA Series

105°C 2000Hrs

- Suitable for a high grade of audio reproduction



KAC Series

- Low Leakage Current
- 105°C 2000Hrs




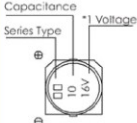
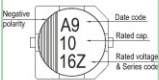
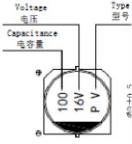

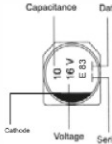
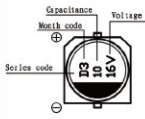
KAN Series

- Bi-polar
- 105°C 2000Hrs

- Suitable for a high grade of audio reproduction



KNSCHA	Nichicon	Rubycon	Panasonic	Chemicon	SAMWHA	SAMYOUNG
*	*	*	*	MVA	SC	MVG
KAT Series	UWT UWP UUP UUT UCQ	JGV SKV	HB HA	MVE MVJ	JC JH RC	MVK BDS BDR BDA
KAE Series	UWF UWG	*	FC	MVY MLA	ZC	*
KAZ Series	UCD UUD UWD	TZV	FK FKS	MZA	CD CK	BXA BXE BXJ
KAM Series	UCL UCM UCV	TKV TPV	FT FP	MZJ MZR	CZ	BXF BXQ
KAL Series	*	TLV	*	*	*	*
KAU Series	UCW	*	*	*	*	*
*	*	*	*	*	JM	*
KAF Series	UUA UUL	SJV	HC	MVL	CA CB	BLA
KAR Series	UCB	*	*	MLK MLE	*	*
KAH Series	*	TXV	TG	MVH MHB	UC UR	CLZ CLX CLS
KAN Series	*	*	*	*	CN NC	BP
KAC Series	*	*	*	*	*	*
KAY Series	*	*	*	MZE MZF	JL	BLH
KAD Series	*	*	*	*	JM	BLA
KAG Series	UUX ULR	*	*	MVE	*	*
KAP Series	ULV	*	*	*	*	*
KAK Series	*	*	*	ARI	*	*
KAA Series	*	*	*	MAK	*	*

KNSCHA	Fujicon	Lelon	Teapo	Jiamicon	CAPXON	Su'scon
						
*	CS	VE	VS	CS	LV	CS
KAT Series	CK	VES VEJ	VT VH	CT CH	EV HV	CH CK
KAE Series	LZ	VEZ VEH	VA VZ	CL	ZV	*
KAZ Series	KZ FZ	VZH VZL	VB VD	CF CK CZ CD	DV	CD
KAM Series	*	VZS VZT	VP	*	*	*
KAL Series	*	VZH	*	CJ	RV	CDL
KAU Series	*	*	*	CJ	*	*
*	EL	*	*	*	JV	*
KAF Series	KL	VEU	VL	CU	MV	CKL
KAR Series	*	*	*	*	*	*
KAH Series	KH	VUA	VK VM	CB	TV	CG CGS CGV
KAN Series	CN	VEB VGB	VN	CN CP	NV	CN
KAC Series	SC	VEC	*	CA CE	KV	*
KAY Series	*	VZR	*	*	CV	*
KAD Series	*	*	VJ	*	*	*
KAG Series	*	*	*	*	*	CL
KAP Series	*	*	*	*	*	*
KAK Series	*	*	*	*	*	*
KAA Series	*	*	*	*	*	*

◆ Conductive polymer aluminum solid capacitors



● Radial Lead Type

KNE1 Series

- High ripple
- Ultra Low ESR

-55°C~105°C 2000Hrs



KNH4 Series

- Low ESR
- High ripple
- High voltage
- High temp.

-55°C~125°C 2000Hrs



KNE2 Series

- Low ESR
- High ripple

-55°C~105°C 2000Hrs



KNH2 Series

- Low ESR
- High ripple
- High voltage

-55°C~105°C 2000Hrs



KNE4 Series

- Low ESR
- High temp.
- High ripple current

-55°C~125°C 2000Hrs



KNH5 Series

- Low ESR
- Long life
- High ripple
- High voltage

-55°C~105°C 5000Hrs



KNE5 Series

- Low ESR
- Long life
- High ripple

-55°C~105°C 5000Hrs



● Chip Type

KNM2 Series

- Low ESR
- High ripple
- Miniaturized

-55°C~105°C 2000Hrs



● Multi-layer Polymer Solid Capacitors

MP19A Series

- Low ESR
 - High ripple current
- 105°C 2000Hrs



◆ Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

● Radial Lead Type

HPB Series

- Low ESR
- High Reliability

105°C 5000Hrs



HPR Series

- Low ESR
- High Reliability

125°C 4000Hrs



● Chip Type

HMB Series

- Low ESR
- High Reliability

105°C 5000Hrs



HMR Series

- Low ESR
- High Reliability

125°C 4000Hrs



◆ Electric Double Layer Capacitors

KSP Series

- High Energy
 - High Power Type
- 2.7V.DC



Button Series

- Long Life
 - Low Leakage Current
- 5.5V.DC



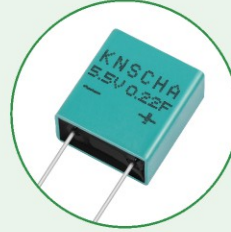
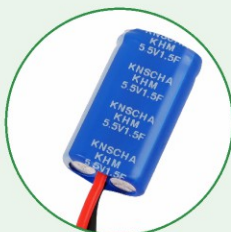
KSD Series

- High Energy
 - High Voltage
 - High Power Type
- 3.0V.DC



KHM Series

- Long Life
 - Low Leakage Current
- 5.5V.DC 6.0V.DC
7.5V.DC 8.1V.DC
9.0V.DC



◆ Lithium Ion Capacitors, LIC

LIC and FCB Series

- High Energy
 - High Voltage
 - Low Self-discharge
- 3.8V.DC~4.2V.DC



● Replaced super capacitors and lithium batteries in some application scenarios

| Plastic Film Capacitors

● Metallized Polypropylene Film Capacitors

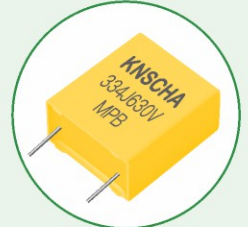
MPP Series

- Dipped Type



MPB Series

- Box Type



MPP-A Series

- For Capacitive Divider



MPB-A Series

- For Capacitive Divider



MMKP82 Series

- Box-type Metallized
- Double Sided High Voltage
- Polypropylene Film Capacitor



● Axial Metallized Polypropylene Film Capacitors

MPT Series

- Cycloidal



Our audio capacitors are to be used for high end audio applications (loudspeakers, amplifiers, coupling, power supply, etc)

MPA Series

- Flat Oval Shape

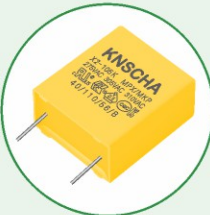


● Class X2 Film Capacitor

● X2 Metallized Polypropylene Film Capacitor

X2 Series

- EMI



X2-A Series

- For Capacitive Divider

● Good properties in damp environment



X2-THB Series

- Temperature: 85°C ± 2°C;
- Humidity: 85% ± 2% Loading
- Voltage: 240Vac (50Hz/60Hz)
- Duration: 2000 Hours

● For capacitive divider power supply. Such as power meter, LED driver, and other sever ambient condition applications.



● Metallized Polyester Film Capacitors

MPEX Series

- Miniature size



MEBC Series

- Miniature size Box



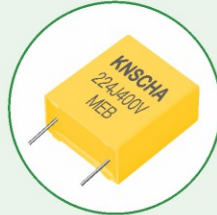
MPE Series

- Dipped Type



MEB Series

- Box Type



● Axial Metallized Polyester Film Capacitors

MET Series

- Cycloidal



MEA Series

- Flat Oval Shape



● CBB61 Motor Capacitor

CBB61 Series

0.5 μ F~20 μ F
250/275/300/350/375
400/450/500VAC



◆ Power Electronics Capacitors New Energy Series

● Metallized Polypropylene Film DC-Link/DC Filtering Capacitors

● Radial Leads

C3D Series

- DC filtering, DC Link
- Solar inverter, industrial inverter
- Industrial power supply

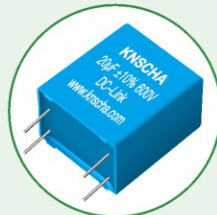
● UL 810 (Construction only)



THB Series

- DC filtering, DC Link
- Solar inverter, industrial inverter
- EV charger, industrial power supply

● AECQ-200
● UL 810 (Construction only)
● THB Grade IIIB (85°C, 85% RH, 1000h at UNDC)



● Cylindrical Aluminum Can/Plastic Can

KDB Series

- DC filtering, DC Link
- Cylindrical Plastic Case
- Inverter, motor drive, welder



KDC Series

- DC filtering, DC Link
- Large inverter, energy storage
- Cylindrical Aluminum Can Dry Type

● UL 810 (Construction only)



KDH Series

- Cylindrical Aluminum Can Dry Type
- DC filtering, DC Link
- Large inverter, energy storage

● UL 810 (Construction only)

● THB Grade IIIB (85°C, 85% RH, 1000h at UNDC)



● Snubber/Pulse Capacitors Double Metallized Polypropylene Film Capacitors

● Radial Leads

MMKP82 Series

- SCR commutating circuit
- High frequency, high voltage
- Snubber, pulse, resonant circuits

● THB Grade IIIB (85°C, 85% RH, 1000h at UNDC)



● Lug Terminal

KSB Series

- High current
- IGBT module protection
- High voltage, high frequency



● Oval Axial/Round Axial Type

KSC Series

- IGBT module protection
- High frequency, high voltage



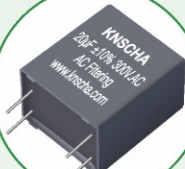
● Metallized Polypropylene AC Filter Film Capacitors

● Radial Leads

KFA Series

- Motor drive
- Solar Inverter, UPS systems
- Small power AC output filter

● UL 810 (Construction only)

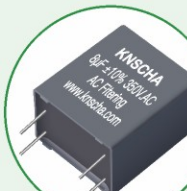


KSG Series

- Motor drive
- Solar Inverter, UPS systems
- Small power AC output filter

● UL 810 (Construction only)

● THB Grade IIIB (85°C, 85% RH, 1000h at UNDC)



● Cylindrical Aluminum Can

KAC Series

- AC filtering
- LCL systems

● UL 810



KAD Series

- LCL systems
- PFC and AC filtering

● UL 810, delta connection



◆ Resonance Capacitors

● Radial Leads

MMKP82 Series

- SCR commutating circuit
- High frequency, high voltage
- Snubber, pulse, resonant circuits

● THB Grade IIIB (85°C, 85% RH, 1000h at UNDC)



KRT Series

- Low ESR
- High frequency
- High pulse Current



● Ceramic Capacitors

HT Series

- HIGH VOLTAGE



KT Series

- SMD Y1



JK Series

- X1 / Y2(300VAC) Safety Standard Recognized Capacitors



JT Series

- X1 / Y1(400VAC) Safety Standard Recognized Capacitors



● Zinc Oxide Varistors

Standard Type Series

- 5D/7D/10D/14D/20D



High Surge Type Series

- 5D/7D/10D/14D/20D



NTC Series

- Power NTC Thermistor



TMOV Series

- 14D/20D



SMD NTC Series

- Plastic Thermistor NTC
- 2220/3220/3225/4032

● Replaced D-5, D-7, D-9 and D-11 Series Lead type NTC Thermistor

● CQC UL TÜV



SMD Series

- Plastic packaging
- 2220/3220/3225/4032

● Replaced 7D and 10D Series Lead type Metal Oxide Varistor

● CQC UL TÜV



◆ Tantalum Capacitors

● Radial Lead Type

CA42 Series

Economy and high performance are combined



● Chip Type

CA45 Series

General purpose SMT chip tantalum series



◆ Multilayer ceramic Capacitors

CT4 Series

Radial leaded MLCC



CT42 Series

Radial leaded MLCC



◆ Power Inductor

◆ High Current Power Inductor

KSM Series

- High saturation current
- Stable frequency characteristic
- Third mounting pad for greater stability and board adhe



KSF Series

- Magnetic shielding structure,
- Low core loss
- Third mounting pad for greater stability and board adhe



◆ Power Inductors For Digital Amplifier

◆ Molding Power Choke

KPE Series

- Vertical 2 in 1 structure
- High current, low core loss



KPI Series

- Excellent DC bias capability
- Low core loss at high frequency

● AEC-Q200 qualified



◆ Drum Core Inductor

KSP Series

- Low DC resistance
- Unshielded, with high inductance



KPRH Series

- Shield structure
- Suitable for high density mounting



SPQ Series

- Shield structure
- Suitable for high density mounting



KNR Series

- Shield structure
- Suitable for high density mounting



KPM Series

- Shield structure
- Low profile design



KKS Series

- Unshielded, through-hole design
- Customized design is available



◆ Wire Wound Common Mode Choke

KTP Series

- Compact and lightweight for high density surface
- Closed magnetic circuit design



KTC Series

- Closed magnetic circuit core for minimum size
- High impedance characteristics



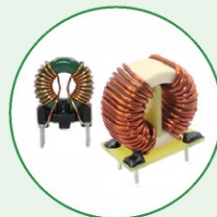
KSQ Series

- Square closed magnetic circuit core
- Flat wire automatic winding



KCB Series

- Broadband filtering
- Improved isolation



◆ Rod Inductor

KAR Series

- High saturation current
- Low DC resistance



KKR Series

- High saturation current
- Low DC resistance



KKL Series

- High saturation current
- Low DC resistance



● AEC-Q200 qualified

◆ SHINDENG Solenoids

SHINDENG
Rotary DC Solenoids

SHINDENG
MADE IN JAPAN



SHINDENG
Small Push-Pull DC Solenoids

SHINDENG
MADE IN JAPAN



SHINDENG
Tubular DC Solenoids

SHINDENG
MADE IN JAPAN



KNSCHA HSBC HongKong Bank Information

- ▶ Bank Name: HSBC (Hong Kong)
- ▶ Beneficiary Name: KNSCHA ELECTRONICS CO., LIMITED
- ▶ Account number: 817 826829 838
- ▶ Swift code: HSBCHKHHHKH
- ▶ Address: UNIT 04, 7/F, BRIGHT WAY TOWER, NO.33 MONG KOK ROAD, KOWLOON, HK.

◆ Silicon Carbide (SiC) MOSFETs

These products are designed to be fast and rugged and include system benefits from high efficiency to reduced system size and cost.

- Advantages: Produced according to national military industry standard production line standards, with stable process and reliable quality.
- Features: High frequency, high power, high efficiency, low conductive resistance.
- Applications: Solar inverters, high voltage DC/DC converters, motor drivers, UPS power supplies, switching power supplies, charging piles, etc.



STANDARD SIZE

Silicon Carbide (SiC) MOSFETs				
Part Number	V _{DS}	IDC(TC=25℃)	R _{DS} (T _J =25℃)Typ	Package
KN3M30065K	650V	92A	30mΩ	TO-247-4
KN3M60065K	650V	51A	60mΩ	TO-247-4
KN3M14120K	1200V	152A	14mΩ	TO-247-4
KN3M18120K	1200V	105A	18mΩ	TO-247-4
KN3M35120K	1200V	69A	35mΩ	TO-247-4
KN3M40120K	1200V	76A	40mΩ	TO-247-4
KN3M50120K	1200V	58A	50mΩ	TO-247-4
KN3M70120J	1200V	36A	68mΩ	TO-263-7
KN3M80120K	1200V	38A	80mΩ (75mΩ)	TO-247-4
KN3M80120J	1200V	32A	80mΩ (75mΩ)	TO-263-7
KN3M160120E	1200V	17A	160mΩ	TO-263-2L
KN3M160120D	1200V	21A	160mΩ	TO-247-3
KN3M160120K	1200V	19A	160mΩ	TO-247-4
KN3M45170D	1700V	72A	45mΩ	TO-247-3
KN3M45170K	1700V	72A	45mΩ	TO-247-4
KN3M65017K	1700V	7A	650mΩ	TO-247-4
KN3M10017K	1700V	5A	1Ω	TO-247-4
KN3M50330K	3300V	68A	50mΩ	TO-247-4

◆ Silicon Carbide (SiC) Diodes

These products use a completely new technology that provides superior switching performance and higher reliability to silicon.

- Advantages: Produced according to national military industry standard production line standards, with stable process and reliable quality.
- Features: Very low reverse recovery current and high surge current resistance; High power, high efficiency, high frequency, high temperature resistance.
- Applications: PFC circuits, DC/AC inverters for solar and wind power generation, UPS power supply and motor drives, etc.



STANDARD SIZE

Silicon Carbide(sic)Diodes			
Part Number	V _{DC}	IDC(TC=25℃)	Package
KN3D06065F	650V	6A	TO-252-2L
KN3D10065F	650V	10A	TO-252-2L
KN3D10065E	650V	10A	TO-263-2L
KN3D06065N	650V	6A	DFN 5 × 6
KN3D06065G	650V	6A	DFN 8 × 8
KN3D10065G	650V	10A	DFN 8 × 8
KN3D06065A	650V	6A	TO-220-2
KN3D06065AF	650V	6A	TO-220F
KN3D08065A	650V	8A	TO-220-2
KN3D10065A	650V	10A	TO-220-2
KN3D10065Al	650V	10A	TO-220-2 (Internal insulation)
KN3D10065H	650V	10A	TO-247-2
KN3D15065A	650V	15A	TO-220-2
KN3D20065A	650V	20A	TO-220-2
KN3D20065H	650V	20A	TO-247-2
KN3D20065D	650V	20A	TO-247-3
KN3D30065H	650V	30A	TO-247-2
KN3D30065D	650V	30A	TO-247-3
KN3D40065H	650V	40A	TO-247-2
KN3D42090H	900V	42A	TO-247-2
KN3D02120F	1200V	2A	TO-252-2L
KN3D05120A	1200V	5A	TO-220-2
KN3D08120A	1200V	8A	TO-220-2
KN3D10120A	1200V	10A	TO-220-2
KN3D20120A	1200V	20A	TO-220-2
KN3D20120H	1200V	20A	TO-247-2
KN3D20120D	1200V	20A	TO-247-3
KN3D30120H	1200V	30A	TO-247-2
KN3D30120D	1200V	30A	TO-247-3
KN3D40120H	1200V	40A	TO-247-2
KN3D50120H	1200V	50A	TO-247-2
KN3D10170H	1700V	10A	TO-247-2
KN3D20170H	1700V	25A/20A	TO-247-2

KNSCHA

Empowering The World



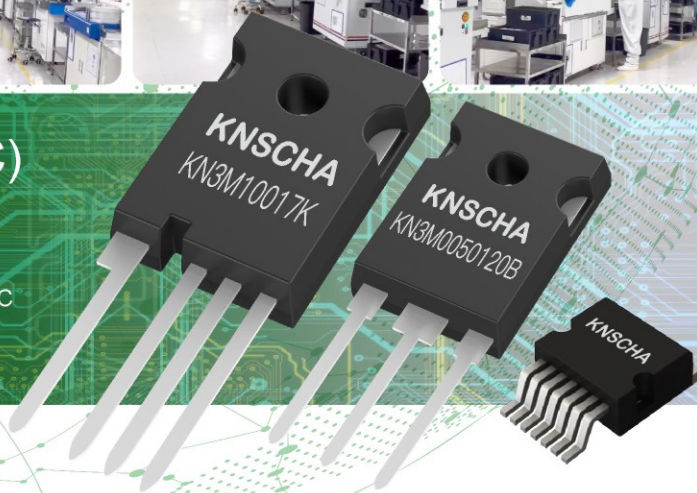
Silicon Carbide (SiC) MOSFETs

VDC: 650VDC, 1200VDC, 1700VDC
Package: TO-263-7, TO-247-3, TO-247-4



Silicon Carbide (SiC) Diodes

VDC: 650VDC, 900VDC, 1200VDC, 1700VDC
Package: DFN5x6, DFN8x8, TO-252-2L,
TO-263-2L, TO-220-2, TO-247-2, TO-247-3



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