



4032 Zinc Oxide SMD Varistor 4032K201-4032K681 For High Surge Current

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Lin Kun
- Certification: UL,VDE,CSA
- Model Number: LK 4032K201-4032K681
- Minimum Order Quantity: 1500pcs
- Price: Negotiable
- Packaging Details: 1500pcs/plate
- Delivery Time: 5-7 Days
- Payment Terms: T/T,Paypal, Western Union
- Supply Ability: 1000000PCS/Month



Product Specification

- Product Name: SMD Chip Varistor
- Part Number: 4032K201-4032K681
- Tolerance Of Varistor Voltage: $\pm 10\%$
- Inch (mm) External Dimension LxW: 4032 11X8.2x5.5 mm
- Varistor Voltage (v): V1mA=201-681V V1mA=751-821V
- Varistor Voltage @1mA DC: 200V-680V
- Max. Allowable Voltage: Dc : 170v-560v
- Max.flow Circulation Energy (40 Times): 4KV/2KV
- Typical Capacitance @1MHz: Cp : 150- 5(J)



More Images



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Product Description



Our Product Introduction

for more products please visit us on lk-thermistor.com

LK4032 SMD Disc Varistors

FEATURES

- Improved component design in a compact case
- High surge current capability
- Superior performance at high temperature
- SMD mountable disk varistors, suitable for lead-free reflow / wave soldering

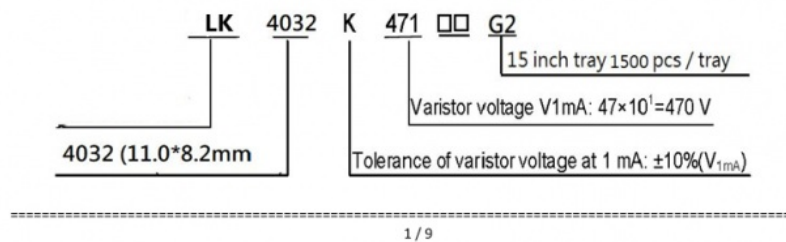
APPLICATIONS

- Power supplies for telecommunication systems
- Protection for LED circuits
- Protection for consumer, industrial equipment
- Protection for automotive electronics

APPLICABLE STANDARDS

- UL1449 TYPE5 E525940
- TUV B115439 002 IEC61051-1, -2, -2-2, IEC60950-1Annex Q IEC 62368-1:2018/G.8.1
- IEC61000-4-5
- GB/T10193-1997 GB/T10194-1997/GB8898 GB4943.1 CQCNO:22001333056

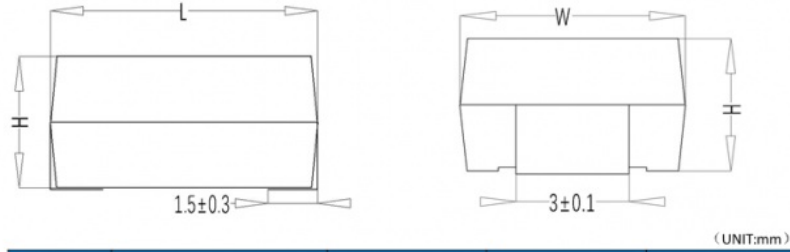
TYPE CODE DESIGNATION



General parameters

Parameter name	Parameter value	UNIT
working temperature	-55 — +125	℃
Storage temperature	-55 — +125	℃
Withstand voltage	≥2.5	KV _{RMS}
Insulation resistance	≥100	M Ω

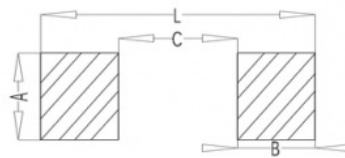
Structure and size



(UNIT:mm)

size	Varistor voltage range (V)	L	W	H
4032	V _{1ma} =201—681	11.0±0.3	8.2±0.3	4.8±0.3
	V _{1ma} =751—821			5.5±0.3

Welding size

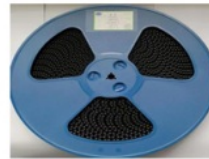


(UNIT:mm)

SIZE	A	B	C	L
4032	3.5	2.8	6.5	12.1

Electrical characteristics (Standard)

Model	Varistor voltage (@1mA DC)	Maximum Clamping Voltage		Maximum Allowable Voltage (8/20 μ s)		Max Surge 8/20 μ s	Energy (10/1000 μ s)	Rated Powe	Typical Capacitance (Reference) @1KHZ
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	V _p (V)	I _p (A)	I max (A)	W max (J)	P (W)	C(pF)
4032K201	200(180-220)	130	170	340	25	2500	25.0	0.4	500
4032K221	220(198-242)	140	180	360	25	2500	27.0	0.4	450
4032K241	240(216-264)	150	200	395	25	2500	30.0	0.4	420
4032K271	270(243-297)	175	225	455	25	2500	35.0	0.4	370
4032K301	300(270-330)	195	250	500	25	2500	40.0	0.4	330
4032K331	330(297-363)	210	275	550	25	2500	42.0	0.4	300
4032K361	360(324-396)	230	300	595	25	2500	45.0	0.4	280
4032K391	390(351-429)	250	320	650	25	2500	50.0	0.4	260
4032K431	430(387-473)	275	350	710	25	2500	55.0	0.4	230
4032K471	470(423-517)	300	385	775	25	2500	60.0	0.4	210
4032K511	510(459-561)	320	410	845	25	2500	67.0	0.4	200
4032K561	560(504-616)	350	450	930	25	2500	69.0	0.4	180
4032K621	620(558-682)	395	510	1020	25	2500	70.0	0.4	160
4032K681	680(612-748)	420	560	1120	25	2500	72.0	0.4	150
4032K751	750(675-825)	460	615	1235	25	2500	75.0	0.4	130



Electrical characteristics (High energy)

Model	Varistor voltage (@1mA DC)	Maximum Clamping Voltage		Maximum Allowable Voltage (8/20μs)		Max Surge 8/20μs	Energy (10/1000μs)	Rated Powe	Typical Capacitance (Reference) @1KHZ
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	V _p (V)	I _p (A)	I max (A)	W max (J)	P (W)	C(pF)
4032K201-H	200(180-220)	130	170	340	25	3500	35	0.4	500
4032K221-H	220(198-242)	140	180	360	25	3500	39	0.4	450
4032K241-H	240(216-264)	150	200	395	25	3500	42	0.4	420
4032K271-H	270(243-297)	175	225	455	25	3500	49	0.4	370
4032K301-H	300(270-330)	195	250	500	25	3500	54	0.4	330
4032K331-H	330(297-363)	210	275	550	25	3500	58	0.4	300
4032K361-H	360(324-396)	230	300	595	25	3500	65	0.4	280
4032K391-H	390(351-429)	250	320	650	25	3500	70	0.4	260
4032K431-H	430(387-473)	275	350	710	25	3500	80	0.4	230
4032K471-H	470(423-517)	300	385	775	25	3500	85	0.4	210
4032K511-H	510(459-561)	320	410	845	25	3500	90	0.4	200
4032K561-H	560(504-616)	350	450	930	25	3500	92	0.4	180
4032K621-H	620(558-682)	395	510	1020	25	3500	95	0.4	160
4032K681-H	680(612-748)	420	560	1120	25	3500	98	0.4	150
4032K751-H	750(675-825)	460	615	1235	25	3500	100	0.4	130

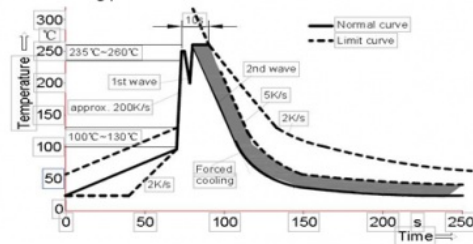


Electrical characteristics (Combined wave)

Model	Varistor voltage (@1mA DC)	Maximum Clamping Voltage		Maximum Allowable Voltage (8/20μs)		Surge 4KV/2KA 1.2/50+8/20 μs (times)	Energy (10/1000μs)	Rated Power	Typical Capacitance (Reference) @1KHZ
	V _{1mA} (V)	V _{AC} (V)	V _{DC} (V)	V _p (V)	I _p (A)	I max 3500A 8/20μs(1time)	W max (J)	P (W)	C(pF)
4032K201-EC	200(180-220)	130	170	340	25	40	25.0	0.4	500
4032K221-EC	220(198-242)	140	180	360	25	40	27.0	0.4	450
4032K241-EC	240(216-264)	150	200	395	25	40	30.0	0.4	420
4032K271-EC	270(243-297)	175	225	455	25	40	35.0	0.4	370
4032K301-EC	300(270-330)	195	250	500	25	40	40.0	0.4	330
4032K331-EC	330(297-363)	210	275	550	25	40	42.0	0.4	300
4032K361-EC	360(324-396)	230	300	595	25	40	45.0	0.4	280
4032K391-EC	390(351-429)	250	320	650	25	40	50.0	0.4	260
4032K431-EC	430(387-473)	275	350	710	25	40	55.0	0.4	230
4032K471-EC	470(423-517)	300	385	775	25	40	60.0	0.4	210
4032K511-EC	510(459-561)	320	410	845	25	40	67.0	0.4	200
4032K561-EC	560(504-616)	350	450	930	25	40	69.0	0.4	180
4032K621-EC	620(558-682)	395	510	1020	25	40	70.0	0.4	160
4032K681-EC	680(612-748)	420	560	1120	25	40	72.0	0.4	150
4032K751-EC	750(675-825)	460	615	1235	25	40	75.0	0.4	130

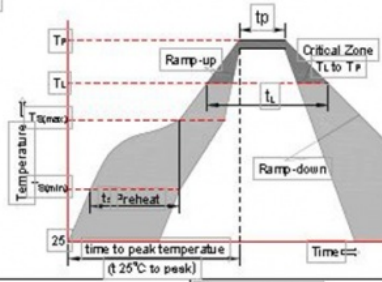
SOLDERING GUIDELINES

The usage of mild, non-activated fluxes for soldering is recommended, as well as proper cleaning of the PCB.
The components are suitable for reflow soldering per JEDEC J-STD-020C.



- Wave soldering Temperature characteristics at component terminal with dual-wave soldering

- Reflow soldering



Profile feature	Sn-Pb assembly	Pb-Free assembly
Average ramp-up rate (T_{max} to T_p)	3°C/sec. Max	3°C/sec. Max
Preheat	-Temperature min. (T_{min})	+100°C
	-Temperature max. (T_{max})	+150°C
	-Time (t_{min} to t_{max})	60-120 secs.
T_{max} to T_L - Ramp-up Rate	3°C/sec. Max	3°C/sec. Max
Time maintained above	-Temperature min. (T_L)	+183°C
	-Time (t_L)	60-150 secs.
Peak classification temperature (T_p)	+220°C to +240°C	+240°C to +260°C
Time within 5°C of actual peak temperature (t_p)	10 secs. to 30 secs.	20 secs. to 40 secs.
Ramp-down rate	6°C/sec. max.	6°C/sec. max.
Time 25°C to peak temperature	6 min. max.	8 min. max.

Notes: All temperature refer to topside of the package, measured on the package body surface

Maximum number of reflow cycles: 3

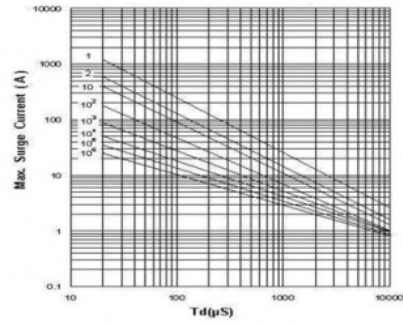
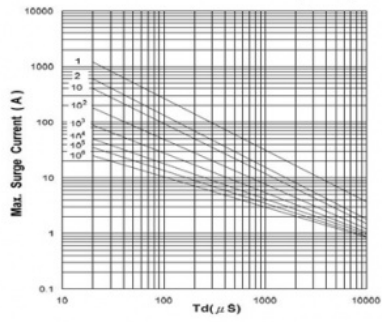
STORAGE CONDITION

- As far as possible, the components should be employed within 24 months after delivery from Kangtai Semiconductor.
- They should be left in their original packing to avoid soldering problems due to oxidized contacts.
- Storage temperature: - 25 up to + 45°C.
- Relative humidity: < 75 % annual average, < 95 % on max. 30 days in a year.

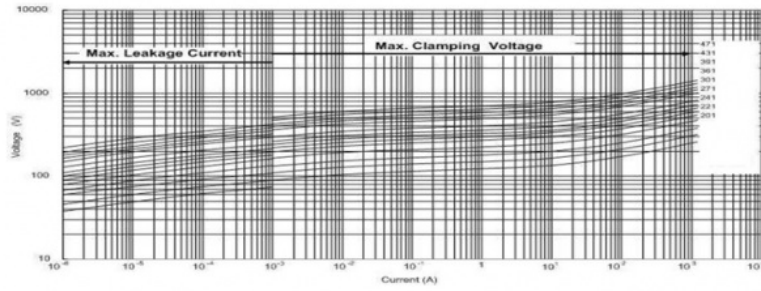
V/I CHARACTERISTICS V-I

4032K201 – 4032K471(H/EC)

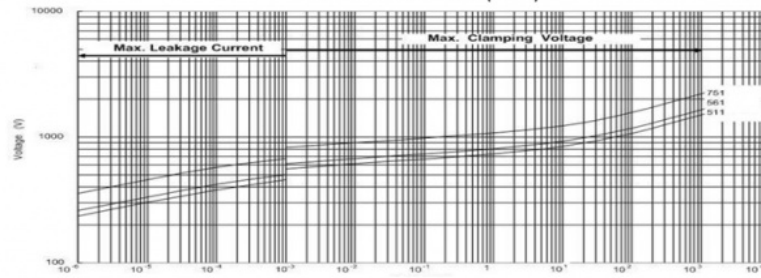
4032K511 – 4032K821(H/EC)



4032K201 – 4032K471(H/EC)

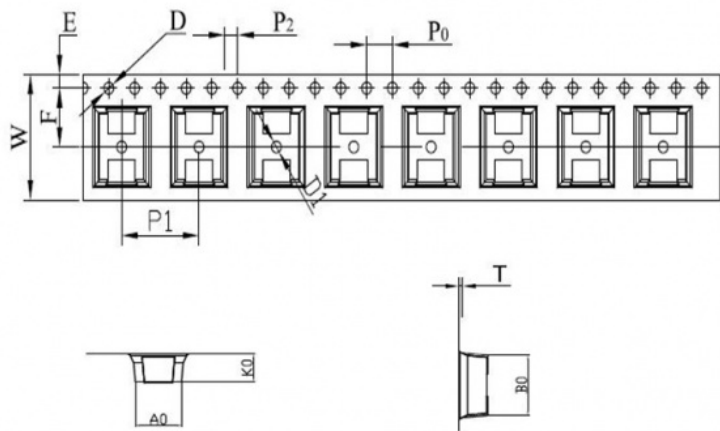


4032K511 – 4032K751(H/EC)



Packing

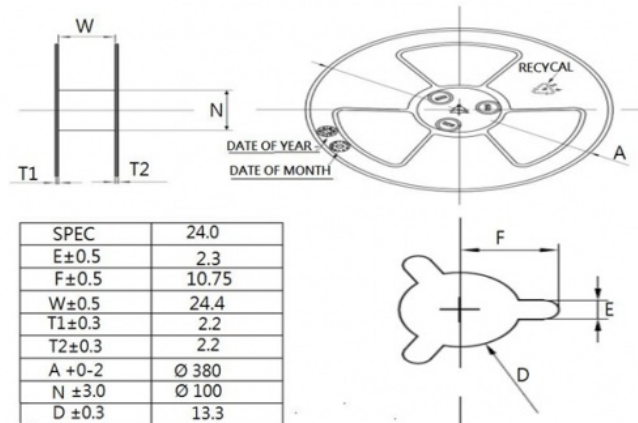
Tape packing method description 24mm tape size



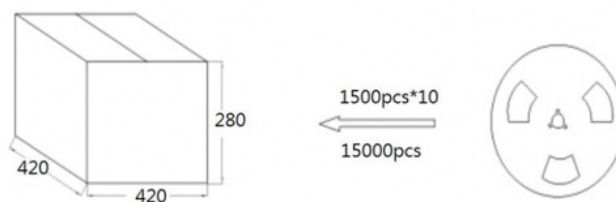
symbol	AO	BO	KO	PO	P1	P2	长度/盘
Spec	8.50±0.1	11.50±0.1	5.30±0.1	4.00±0.10	12.0±0.10	2.00±0.10	18300mm
symbol	W	T	E	F	DO	D1	元件/盘
Spec	24.0±0.3	0.40±0.05	1.75±0.10	11.50±0.1	1.50 ^{+0.1} ₋₀	1.50±0.10	1500 pcs



15 inch rubber disc size

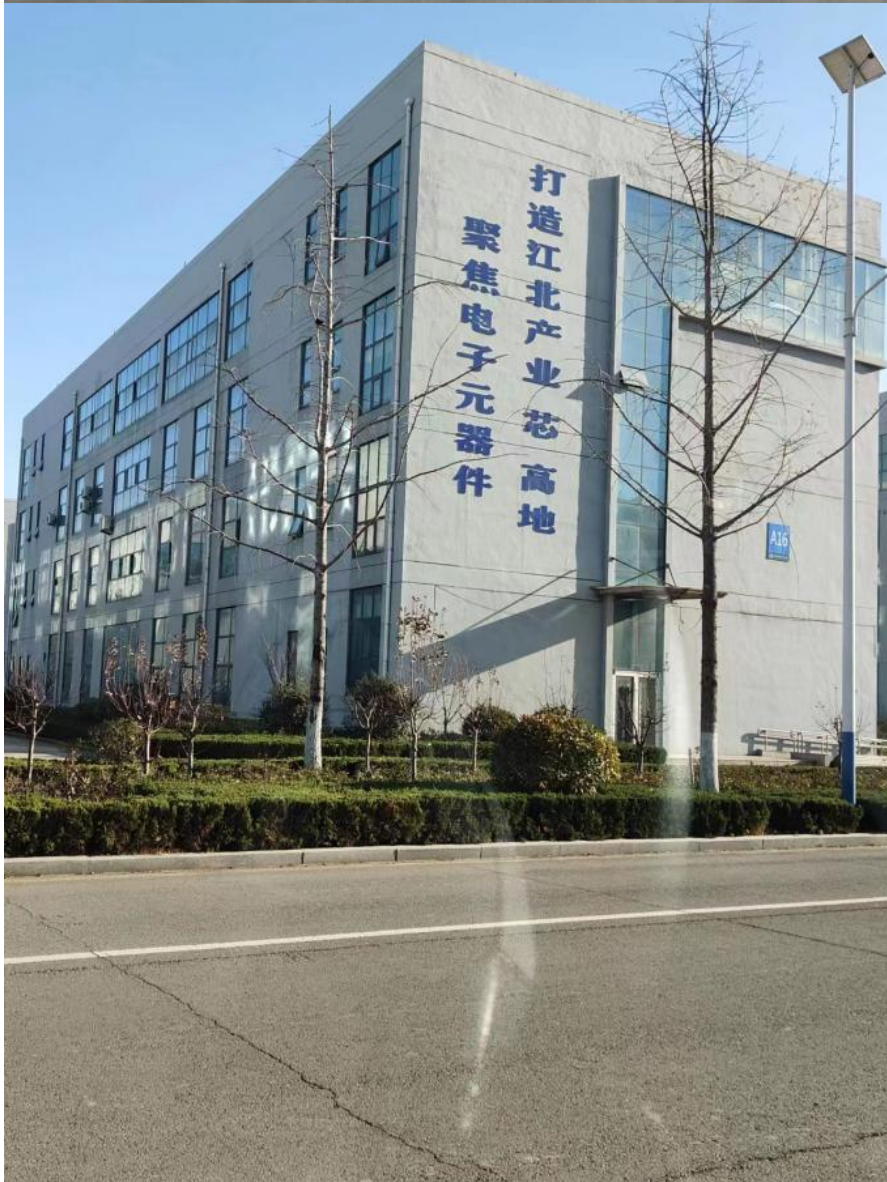
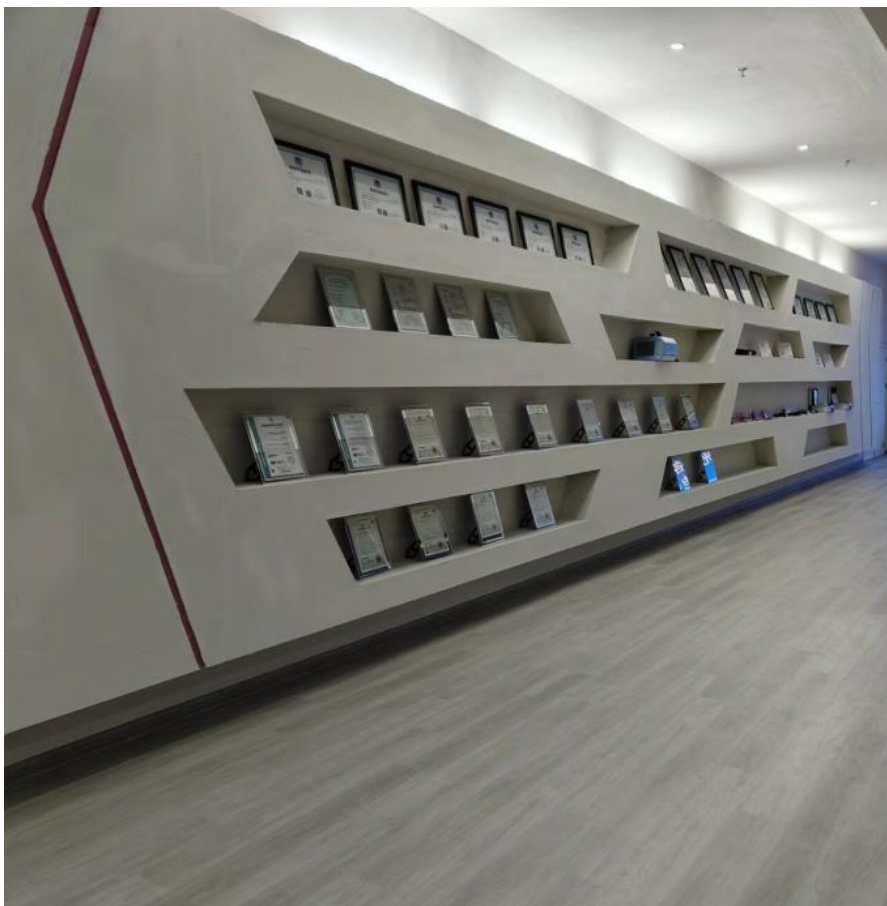


Packing carton



roduct Description





The **QV0402~2220H Series SMD Varistor Element** is a surface mounted varistor device that is available in a wide range of sizes from 0402 to 2220, and with a varistor voltage @1mA DC from 12V to 102V. This surface mounted varistor element also offers an external dimension of 1206 0.12×0.06 (3.2×1.6) and 1812 0.18×0.12 (4.5×3.2) inch (mm). It comes with a peak current (8/20μs) IP of 20 to 1200 (A), making it suitable for a large variety of applications. With its excellent electrical characteristics and high reliability, this QV Series SMD Varistor Element is a great choice for any surface mounted varistor application.

Features:

Surface Mounted Varistor Element
Surface Mounted Varistor Device
SMD Varistor Device
Varistor Voltage: 12V-102V at 1mA DC
External Dimension: 1206 (0.12×0.06 inches / 3.2×1.6 mm) and 1812 (0.18×0.12 inches / 4.5×3.2 mm)
Max. Working Voltage: DC 5.5V-85V and AC 4V-60V
Tolerance of Varistor Voltage: ±10% and ±15%
Size: 0402- 2220

Technical Parameters:

Parameter	Value
Product Name	SMD Chip Varistor
Varistor Voltage @1mA DC	12V-102V
Size	0402-2220
Max. Working Voltage (DC)	5.5V-85V
Max. Working Voltage (AC)	4V-60V
Max. Clamping Voltage (8/20μs)	Vc : 24-175 (V) IP : 20-5(A)
Part Number	QV0402 2220H Series
Typical Capacitance @1MHz	Cp : 150- 5(J)
Peak Current (8/20μs)	IP : 20- 1200 (A)
External Dimension (inch/mm)	1206 0.12×0.06 (3.2×1.6) 1812 0.18×0.12 (4.5×3.2)
Tolerance of Varistor Voltage	±10% ±15%

Applications:

Lin Kun SMD Varistor is a surface mount varistor device, which is widely used in various applications. It is a surface mounted varistor component with high-quality and reliable performance. The brand name Lin Kun is UL, VDE, and CSA certified and has a minimum order quantity of 4000/3000/2000pcs/plate. This SMD varistor has a peak current of 20-1200 (A) for 8/20μs and a maximum clamping voltage of 24-175 (V) for 8/20μs. Its part number is QV0402 2220H Series and the maximum working voltage is DV: 5.5V-85V and AC: 4V-60V, and the varistor voltage @1mA DC is 12V-102V. The price of the SMD Varistor is negotiable and it has a fast delivery time of 5-7 days. The payment terms are T/T, Paypal, and Western Union. The supply ability of the SMD Varistor is 1000000PCS/Month.

Customization:

Lin Kun SMD Surface Mount Varistors
Brand Name: Lin Kun
Model Number: SMD Surface Mount Varistors
Place of Origin: China
Certification: UL, VDE, CSA
Minimum Order Quantity: 4000/3000/2000pcs/plate
Price: Negotiable
Packaging Details: 4000/3000/2000pcs/plate

Delivery Time: 5-7 Days
Payment Terms: T/T, Paypal, Western Union
Supply Ability: 1000000PCS/Month
Varistor Voltage @1mA DC: 12V-102V
Max. Clamping Voltage (8/20μs): Vc : 24-175 (V) IP : 20-5(A)
Inch (mm) External Dimension L×W: 1206 0.12×0.06 (3.2×1.6) 1812 0.18×0.12 (4.5×3.2)
Peak Current (8/20μs): IP : 20- 1200 (A)
Tolerance of Varistor Voltage: ±10%, ±15%

Highlights

Surface Mount Device Varistor
Surface Mounted Varistor Device

Lin Kun

UL, VDE, CSA

4000/3000/2000pcs/plate

5-7 Days

T/T, Paypal, Western Union

1000000PCS/Month

12V-102V

24-175V

20-5A

1206 0.12×0.06 (3.2×1.6)

1812 0.18×0.12 (4.5×3.2)

20- 1200 (A)

±10%, ±15%

Support and Services:

SMD Varistor Technical Support and Service

We provide technical support and service for SMD Varistor products to our customers. Our support team is staffed with product experts who are available to answer your questions, provide product information, and help with troubleshooting and installation.

We also have a library of technical documents and resources available to our customers, including user manuals, product datasheets, and application notes. If you need additional assistance, our team is available to provide personalized technical support.

We provide a complete satisfaction guarantee for all SMD Varistor products. If you're not completely satisfied with your purchase, we'll work to find the best solution for you.

Packing and Shipping:

SMD Varistor Packaging and Shipping:

The SMD Varistor is packaged in moisture-proof and sealed bags. The bags are then placed in a cardboard box for shipping. The box is marked with the product name and part number. The box is then secured with packing tape, placed in an outer corrugated shipping box, and labeled with the destination address.

FAQ:

SMD Varistor

Brand Name: Lin Kun

Model Number: SMD Surface Mount Varistors

Place of Origin: China

Certification: UL,VDE,CSA

Minimum Order Quantity: 4000/3000/2000pcs/plate

Price: Negotiable

Packaging Details: 4000/3000/2000pcs/plate

Delivery Time: 5-7 Days

Payment Terms: T/T,Paypal, Western Union

Supply Ability: 1000000PCS/Month

Questions & Answers

Q1: What is SMD Varistor?

A1: SMD Varistor is a surface-mount varistor that is used to protect circuits from transient overvoltage or to suppress EMI/RFI noise.

Q2: What are the application of SMD Varistor?

A2: SMD Varistor can be used in consumer electronics, automotive, telecom, medical, lighting, and many other applications.

Q3: What is the Brand Name of SMD Varistor?

A3: The Brand Name of SMD Varistor is Lin Kun.

Q4: What certifications do SMD Varistors have?

A4: SMD Varistors have certifications of UL,VDE,CSA.

Q5: What is the minimum order quantity for SMD Varistors?

A5: The minimum order quantity for SMD Varistors is 4000/3000/2000pcs/plate.



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