MYL 32L-431K MOV Varistor 32mm 510V Series For Electronic Inverter Welding

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: MYG 32L-431K
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year

Product Specification

- Features: Low Leakage Current
- Material: Zinc Oxide
- Varistor Voltage: 387~473V
- Max. Allowable Voltage: ACrms: 275V DC : 350(V)
- Max. Clamping Voltage/test Current (8/20μs): VC : 710V IP:200(A)
- Energy (2ms): 430(J)
- Withstanding Surge Current (8/20μs): 1time(A) 25000 2times(A) 20000
- Capacitance (Reference) (1kHz): 3100(PF)
- Highlight: **MOV 510V series Resistor**, **MOV Resistor for electronic inverter welding**, **32L-431K MOV Resistor**

More Images

Product Description

MYL1type varistor

(Varistor Type MYL1)

MYL1 type varistor is a semiconductor ceramic element made of zinc oxide as the main raw material, and its resistance value changes nonlinearly with the change of applied voltage. It has the characteristics of small size and large flow rate.

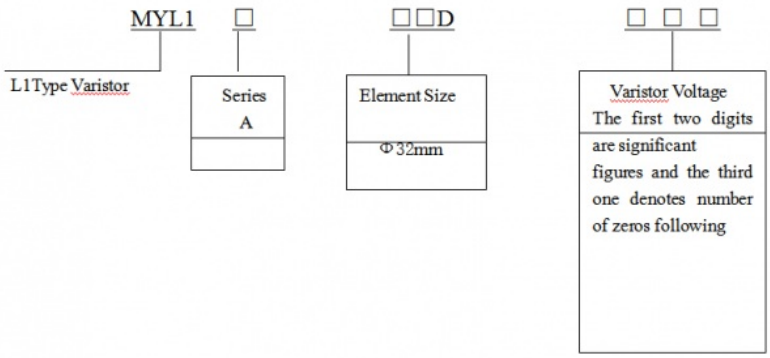
1,Features

Varistor voltage(200V-1800V)
Excellent non-linearity coefficient
Great with standing surge current
Fast response time

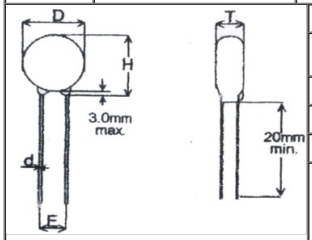
2,Recommended Applications

Protection of semiconductor
Protection of railway automatic signals
Surge protection of communication,measuring or controller instrument
Transient voltage surge suppressor units
Surge protection of vacuum switches

3,Explanation of Part Numbers



SPECIFCATION FOR APPROVAL

	SPECIFCATION	NO.	
PART NO.	32D431K	PAGE 1 OF 2	
		DATE:September 04, 2023	
1.OUTLINE			
1.1	APPEARANCE	Without Any Crack, Marking Should Be Clear	
1.2	DIMENSIONS	DIMENSIONS (mm)	
		D (max)	34.0
		H (max)	38.0
		T(m±1.5)	5.5
		d(±0.02)	1.2
		E(±1.0)	25.0
2.ELETRICAL PARAMETER			
2.1	Max. Allowable Voltage	AC: 275(V)	At 1 mA DC
		DC: 350(V)	
2.2	Varistor Voltage	387-473(V)	VO.1 mA□ V1.0 mA#
2.3	Rated Wattage	1.5(W)	
2.4	Max. Clamping Voltage	IP: 200(A)	Test Current Waveform 8/20μs
		VC: 710 (V)	
2.5	Withstanding Surge Current	1time:25000(A)	Test Current Waveform 8/20μs
		2time:20000(A)	
2.6	Max. Energy	430(J)	Test Current Waveform 10/1000μs
2.7	Typical Capacitance	3100(pf)	@1KHz
2.8	Leakage Current	≦200(μA)	At 80% of Varistor Voltage

2.9	Nonlinear Exponent(α)	≧40	
2.10	Temperature Coefficient Of Varistor Voltage	≦±0.05%/°C MAX.	
2.11	Impulse Life	≦±10%(V1 mA)	Test Current Waveform 8/20μs

SPECIFCATION FOR APPROVAL

	SPECIFCATION		NO.		
PART NO.	32D431K		PAGE 2 OF 2		
			DATE:September 04, 2023		
3. Mechanical Requirements					
3.1	Tensile of Terminations	No Outstanding Damage	1Kgf, 10Sec		
3.2	Bending of Terminations	No Outstanding Damage	0.5Kgs,90°,3Times		
3.3	Vibration	No Outstanding Damage	Freq: 10-55hz Amp: 0.75 mm, 1Min		
3.4	Solderability	Min.95% of The Terminal Should Be Covered With Solder Uniformly	Solder Temp:230±5°C Immersed Time:2±0.5Sec		
3.5	Resistance of soldering Heat	V1mA /V1mA ≤±5%	Solder Temp:260±5°C		
			Immersed Time:10±1Sec		
4 Environmental Requirements					
4.1	High Temperature Storage	V1mA /V1mA ≤±5%	Ambient Temp:125±2°C Duration: 1000h		
4.2	Low Temperature Storage	V1mA /V1mA ≤±5%	Ambient Temp:-40±2°C Duration: 1000h		
4.3	High Humidity Storage/Damp Heat	V1mA /V1mA ≤±5%	Ambient Temp:40±2°C 90-95%R.H. Duration: 1000h		
4.4	Temperature Cycle	V1mA/V1mA ≤±5%	Step	Temperature	Period
			1	-40°C	30min
			2	Room Temp	15min
			3	125°C	30min
			4	Room Temp	15min
4.5	High Temperature Load	V1mA/V1mA ≤±10%	Ambient Temp:85±2°C Duration:1000h Load:Max Allowable Voltage		
4.6	High Humidity load	V1mA/V1mA ≤±10%	Ambient Temp:125±2°C Duration:1000h Load:Max Allowable Voltage		
4.7	Operating Temperature Range	-40°C +85°C	-40°C +85°C		
4.8	Storage Temperature Range	-40°C +125°C	-40°C +125°C		

5,Electrical Characteristics

Type	Varistor Voltage	Max. Allowable Voltage		Max. Clamping Voltage/test Current (8/20μs)		Energy (2ms)	withstanding surge current (8/20μs)		Capacitance (Reference) (1kHz)
	V	ACrms(V)	DC(V)	Vc(v)	Ip(A)	J	1time(A)	2times(A)	PF
32D431K	387~473	275	350	710	200	430	25000	20000	3100

Operating Temperature Range:-40 to 85℃
Storage Temperature Range):-40 to 125℃

Low Leakage Current 32D 40D MOV Metal Oxide Varistor Wide Working Voltage Range
SPD varistor manufacturers believe that the application of varistors can significantly protect low-voltage electrical equipment. Generally speaking, in order to prevent lightning strikes, we need to take various lightning protection measures according to

the specifications, and then install varistors at the user's power supply end to realize the resistance adjustment of the power supply end. If there is a large voltage at the power supply terminal, the varistor will be broken down to ensure that the voltage at both ends remains at a normal value, thereby protecting the electrical equipment. In addition, the phase line or neutral line is used to introduce lightning overvoltage, which can be broken down by two varistors, and the voltage at both ends will remain at a normal value. At the same time, the fuse will be blown to ensure that no continuous current flows through the varistor, thereby protecting the varistor.

Basic properties of varistors:

(1) Protection characteristics. When the impact strength of the impact source (or the impact current Isp=Usp/Zs) does not exceed the specified value, the limited voltage of the varistor is not allowed to exceed the impact withstand voltage (Urp) that the protected object can withstand. .
(2) Impact resistance characteristics, that is, the varistor itself should be able to withstand the specified impact current, impact energy, and the average power when multiple impacts occur one after another.
(3) There are two life characteristics. One is the continuous working voltage life, that is, the varistor can meet the specified working time (hours) under the specified ambient temperature and system voltage conditions. The second is the impact life, that is, the number of times it can reliably withstand the specified impact.

Model Number	32D 2011K 390K 431K 470K 471K 511K 561K 680K 681K 821K 102K 112K 122K 142K
Package	Varistors
D/C	Newest
Condition	New & Original
Lead time	Within 1 day
Unit Price	Contact us for latest price
More details	Please contact us

Applications

Transistor, diode, IC, thyristor or triac semiconductor protection
Surge protection in consumer electronics Surge protection in industrial electronics
Surge protection in electronic home appliances, gas and petroleum appliances
Relay and electromagnetic valve surge absorption

Competitive Advantage:
Factory supply directly
Completed certificates such as UL,VDE,SGS,etc and high quality available
Quick delivery
Best after-sales services
OEM & ODM available
Specifications:

ZINC OXIDE VARISTOR

32D Specification

MYG-LK PartNumber	Maximum Allowable Voltage 最大允许电压		Varistor Voltage 压敏电阻器动作电压	Clamping Voltage (Mxa) 抑制电压 @(8/20)us		Maximum Peak Current 最大电流耐量 (8/20)us		Maximum Energy 最大吸收能量 (10/1000)us	Rated Power 消耗功率	Typical Capacitance (Reference) 参考电容值
	AC. rms	DC	V1.0mA(V)	VC	IP	1time	2time	(J)	(W)	@1KHz (pF)
Standard	(V)			(V)	(A)	(A)				
32D201K	130	170	200(185-225)	340				250		5200
32D241K	150	200	240(216-264)	395				290		5100
32D271K	175	225	270(243-297)	455				300		4800
32D331K	210	275	330(297-363)	550				360		4300
32D361K	230	300	360(324-396)	595				380		3900
32D391K	250	320	390(351-429)	650				400		3200
32D431K	275	350	430(387-473)	710				430		3100
32D471K	300	385	470(423-517)	775				460		2800
32D511K	320	415	510(459-561)	845				510		2700
32D621K	385	505	620(558-682)	1025				570	1.2	2400
32D681K	420	560	680(612-748)	1120	200	25000	20000	600		2200
32D751K	460	615	750(675-825)	1240				620		2000
32D781K	485	640	780(702-858)	1290				660		1900
32D821K	510	670	820(738-902)	1355				700		1800
32D911K	550	745	910(819-1001)	1500				750		1300
32D951K	575	765	950(855-1045)	1570				780		1200
32D102K	625	825	1000(900-1100)	1650				810		1100
32D112K	680	895	1100(990-1210)	1815				910		1000
32D122K	750	990	1200(1080-1320)	1980				960		920
32D142K	880	1140	1400(1260-1540)	2310				1020	1.1	800
32D162K	1000	1280	1600(1440-1760)	2640				1080	1.1	700

TABLE 1

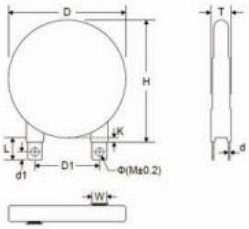
Unit : mm

Symbol	Dimension
H(max.)	40.0
L(min.)	14.5
D(max.)	36.0
D1(±1.0)	25.4
T(max.)	TABLE 2
d(±0.25)	0.5
d1(±0.3)	3.7
K(max.)	3.2
W(±0.5)	7.0
ΦM(±0.2)	3.2

TABLE 2

Unit : mm

Model	T(max.)	Model	T(max.)
101K	5.8	511K	8.0
121K	6.0	561K	8.5
151K	6.3	621K	8.7
181K	6.1	681K	9.0
201K	6.2	751K	9.4
221K	6.3	781K	9.6
241K	6.4	821K	9.8
271K	6.6	911K	10.4
301K	6.8	951K	10.6
331K	6.9	102K	11.2
361K	7.1	112K	11.8
391K	7.3	122K	12.3
431K	7.5	142K	13.3
471K	7.8	162K	14.3



（图1：32D系列简图）


ZOV
32D431K
AF1
VDE

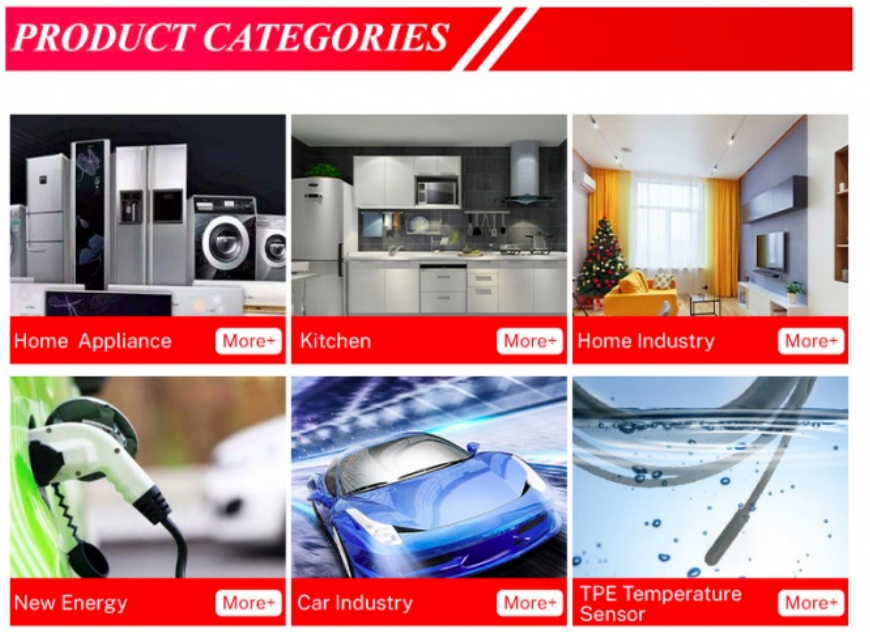

MYG
32D471K
MYG
32D471K

Production Process / Quality Control

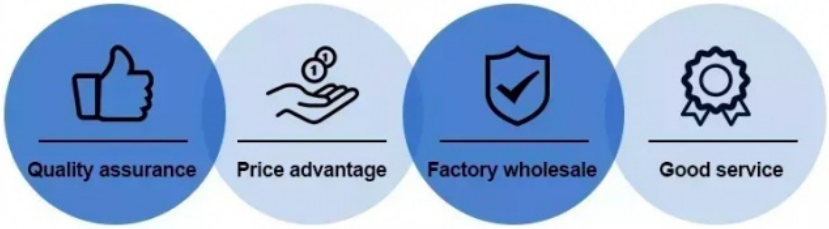
Application

1. Varistor voltage: refers to the voltage value across the varistor at a specified temperature and DC (generally 1mA or 0.1mA). Recorded as V1mA or V0.1mAo
2. Maximum continuous voltage: refers to the maximum effective value of sinusoidal AC voltage or the maximum DC voltage value that can be continuously applied to both ends of the varistor for a long time under the specified ambient temperature
3. Limiting voltage: refers to the maximum peak voltage at both ends of the varistor when a specified surge current (8,20μs) passes through it.
4. Rated power: refers to the maximum average impact power that can be applied to the varistor under the specified ambient temperature.

5. Maximum energy: the maximum impact energy that can be applied to the varistor under the condition that the varistor voltage does not change more than ±10% and the impulse current waveform is 10, 1000μs or 2ms.
6. Current capacity (maximum inrush current)



Our advantage:



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