

05D471K-05D751K Series MOV 05mm Varistor 18V-750V For Overvoltage Protection

Basic Information

Place of Origin:	China
Brand Name:	LIN KUN
Certification:	UL VDE CSA CQC
Model Number:	MOV Varistor Surge Absorber 05D471K
Minimum Order Quantity:	1000PCS
Price:	Negotiation
 Packaging Details: 	1000PCS/Bag
Delivery Time:	10-15Days
Payment Terms:	L/C, Western Union, T/T
 Supply Ability: 	100000pcs/month



GRANE

Product Specification

• Highlight:

High Surge:	0.6-32J
Product Name:	MOV Varistor
Varistor Operating Voltage:	V1.0MA(V) 470V(423-517)V
Maximum Allowable Voltage:	DC 385V
Reference Capacitance	: 55 @1KHZ(pf
Storage Temperature:	-40°C~+85°C
Power Consumption:	0.01-0.1 W)
Inhibition Voltage @ (8/20) Us:	VC 810V
Maximum Current Capacity (8/20) Us:	400 A)

750V MOV varistor, MOV 05mm varistor,

Product Description



[Product Features] Epoxy resin insulation encapsulation, small size, large flow capacity and energy tolerance; [Product use] Overvoltage protection, surge absorption, etc.

Features

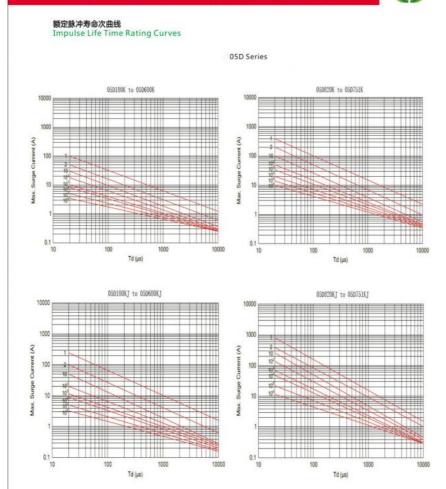
Focus on R&D and manufacturing of NTC thermistors and temperature sensors

Overvoltage protection type varistor MYG series

- Response time: < 25ns Insulation resistance \geq 500M Ω
- Operating environment temperature: -40°C +85°C
- Chip diameter: 5, 7, 10, 14, 20, 25, 32, 40, 50mm
- Allowable deviation of varistor voltage: K±10%, L±15%

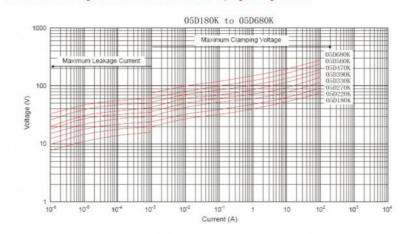
05D Specifiation Put ''J''In Free Code Stands For High Surge Series

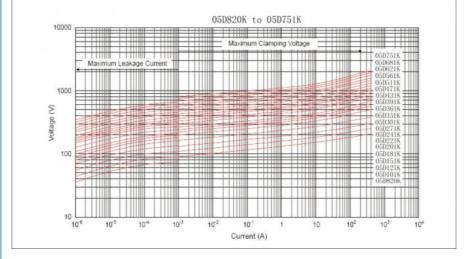
PartNumber		Maximum Allowable Voltage		Clamping Voltage(Mxa)		MaximumPeak Current		Maximum Energy		Rated Power	Typical Capacitance										
		最大分	ά÷	压敏电道器 动作电压	抑制电压 @(8/20)us		最大电流耐量 (8/20)us		最大吸收能量 (10/1000)us		消耗功率	(Reference) 参考电容值									
		AC.rms	DC		vc	IP Standard High Surge Standard High		(W)	@1KHz												
Standard	High Surge	(V)		V1.0mA(V)	(V)	(A)		(A)	(J)	(J)		(pF)									
05D180K	э	11	14	18(14.4-21.6)	40				0.4	0.6		1400									
05D220K	J	14	18	22(18.7-26)	48		100 / 50×2		0.5	0.7	1	1150									
05D270K	J	17	22	27(23-31.1)	60			1000	0.6	0.9	2 8	930									
05D330K	J	20	26	33(29.5-36.5)	73			250	0.8	1.1	0.01	760									
05D390K	J	25	31	39(35-43)	80	1			2.0	2.0	2.0	53	20	2.0	2.2		/ 100×2	0.9	1.2	0.01	640
05D470K	J	30	38	47(42-52)	104			100.42	1.1	1.5		530									
05D560K	J	35	45	56(50-62)	123				1.3	1.8		450									
05D680K	1	40	56	68(61-75)	145				1.6	2.2		370									
05D820K	J	50	65	82(74-90)	150				2.5	4.0		300									
05D101K	J	60	85	100(90-110)	175				3.0	4.1		250									
05D121K	J	75	110	120(108-132)	210				4.0	4.9		210									
05D151K	J	95	125	150(135-165)	260				4.8	6.5		165									
05D181K	J	115	150	180(162-198)	320				5.9	7.5		140									
05D201K	J	130	170	200(185-225)	355							6.5	8.5	i i	125						
05D221K	J	140	180	220(198-242)	380				7.0	9.0	1 1	110									
05D241K	1	150	200	240(216-264)	415				8.0	10.5		100									
05D271K	J	175	225	270(243-297)	475		100		8.5	11.0		95									
05D301K	J	190	250	300(270-330)	520	5	400	800	9.0	12.0	0.10	85									
05D331K	J	210	275	330(297-363)	570	ੇ	/ 200×2	400×2	9.5	13.0	0.10	75									
05D361K	J	230	300	360(324-396)	620	200	200-2	100.2	1.0	16.0	i i	70									
05D391K	ા	250	320	390(351-429)	675				12.0	17.0	1 1	65									
05D431K	J	275	350	430(387-473)	745				13.0	20.0		60									
05D471K	J	300	385	470(423-517)	810				15.0	21.0	1	55									
05D511K	J	320	415	510(459-561)	845				16.0	22.5	1 1	50									
05D561K	J.	350	460	560(504-616)	920				16.8	24.0	1 1	45									
05D621K	J	385	505	620(558-682)	1025				17.7	26.6		40									
05D681K	J	420	560	680(612-748)	1120				19.4	29.1	1	38									
05D751K	្រ	460	615	750(675-825)	1240				22.4	32.0	1	30									





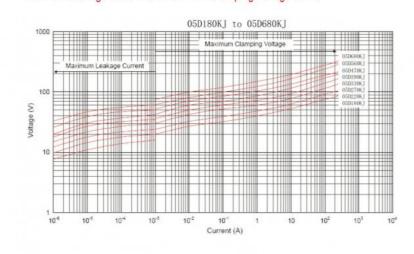
Maximum Leakage Current and Maximum Clamping Voltage Curve

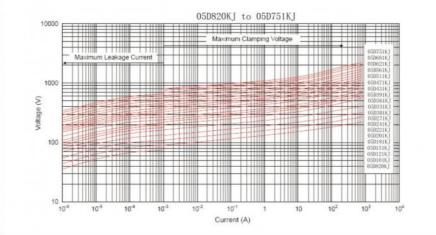






Maximum Leakage Current and Maximum Clamping Voltage Curve





性能特性 Performance Characteristics(Electrical)

TestItem/Standard 測试项目/标准	Test Methods/Description 憲诚方法/说明	Specifications 规格值	
Standard Test Condition 标准测试条件	Environmental conditions under which every measuring is done without doubt on themeasurin results.Unless specified.Temperature humidity are 5 to 35℃ 45 to 85%RH. 周期上以當選25℃,65%RH为实验条件,判定上有減又时以溫度意識5-35℃、相於混度45-85%RH为条件不特別限定。	-	
Maximum Allowable Voltage 最大容许电压	The maximum sinusoidal RMS voltage or maximum DC voltage that can be appliedcontinuously in the specified environmental Temperature range. 连续购以交流电压成直流电压之最大值		
Varistor Voltage 压敏电压	The voltage between two terminals with the specified measuring current 1 mA DC applied is called Vc or VcmA, the measurement shall be made as fast as possible to avoid heat affection. 使用 1 mA DCZ電磁版工图电阻器测量用端之电压即为压敏电压或称Vc。为了避免热效应 影响。测量到间底可能先(一般力40ms)		
Clamping Voltage 即制相任	The maximum voltage between two terminals with the specified standard impulse current (8/20us) illustrated below applied. 供用一场海化QD图像脉冲电流通过压钢电路器,此时两端之最大电压。	To meet the specified value	
Maximum Peak 2times Current 2次 突波耐量	The maximum current within the varistor voltage change of ± 10% with the standard impulse current(8/20us)applied two times with an interval of 5 minutes. 以約2026元素质用点加于压敏电阻器两端两波、中间间隔5分钟,使压敏电压偏移量在 ±10以内之量大电流值。	如規格表	
Withstandi ng 1times Surge 1次 Current	The maximum current within the varistor voltage change of ±10% with the standard impulse current(8/20us)applied one time. 以8/202 标准波形电流加与压敏电阻器两端一次,压敏电压偏移量在±10以内之最大电流 僵.		
Maximum Energy 最大吸收能量	The maximum energy within the varistor voltage change of ± 10% when one impulse of 2ms or 10/1000us is applied. 以2mscg10/1000us方波加于任敏电刷撇上一次,任敏电压偏移量在±10%以内的能量。 E哪量)=VmImT Im量大指序码方波电流 Vm 在Im目前最大指承电压 T :突波电流的经过时间(有效波觉)		
Rated Power 消耗功率	The power that can be applied in the specified ambient temperature. 在85s2℃的交流电话线施加于压敏电阻器上1000小时,压敏电压偏移量在±10%以内的最大 电力。		
Capacitance 电容	Capacitance shall be measured at 1kHz ±10%.1Vrms max.(1 MHz below 100pF).0V bias and 20±2℃. 电容应在1KHz±10% .1Vrms max.,<> 100pF用1MHz)0V bias下對得自周围還度量20±2 ℃。		
Dissipation Factor 消散要素	Dissipation Factor shall be measured at 1KHz±10%.1Vrms max.(1MHz±10% below 100pF).OV bias and 20±2°C 消散要素度在1KHz±10%, 1Vrms max.0V bias下游得且原图温度是20±2°C。		

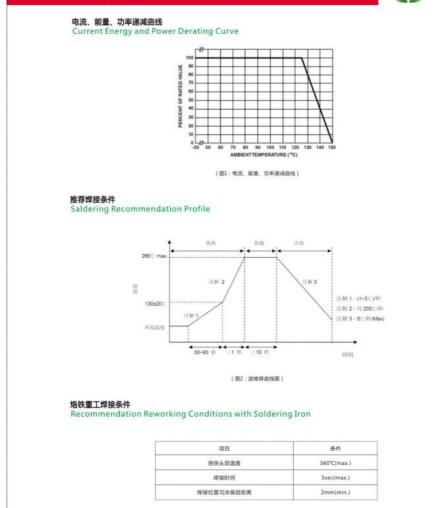


机械特性 Mechanical

TestItem/Standard 測试项目/标准	Test Methods 测试方法		Specifications 原格值
Robustness of Terminations	After gradually applying the force specified below a the seconds, the terminal shall be visually examined t 将本体面定后,善予如下之作用力子引线上十秒钟,观察是	for any damage.	No outstanding
(Tenaile)			damage
端子印张强度 IEC 60068-2-21	Terminal diameter(mm) 0.5 <d<0.8< td=""><td>Force(kg) 1.0</td><td>无外在损伤</td></d<0.8<>	Force(kg) 1.0	无外在损伤
160 00000-2-21	0.8 <d≤1.25< td=""><td>2.0</td><td></td></d≤1.25<>	2.0	
	1.25 <d< td=""><td>4.0</td><td></td></d<>	4.0	
Robustness of Terminations (Bending) 端子弯曲强度 IEC6006802-21	The unit shall be secured with its terminal kept ve below be applied in the axial direction. The terminal shall gradually be bent by 90° in c opposite direction, and again back to the original poor The damage of the terminal shall be visually examine 将本体提定好,患与结核将为不用如下作用力,先以一方 复度状,检查到解损伤情况。	one direction, then 90°in the sition. d.	
	Terminal diameter(mm)	Force(kg)	No outstanding
	0.5 <d≤0.8< td=""><td>0.5</td><td>damage</td></d≤0.8<>	0.5	damage
	0.8 <d≤1.25 1.25<d< td=""><td>1.0 2.0</td><td>无外在损伤</td></d<></d≤1.25 	1.0 2.0	无外在损伤
Vibration 耐振性 IEC60068-2-6	After repeadly applying a single harmonic vibration anplitude 1 Sm with 1 minute vibration frequence H21c each of three perpendicular directions for 2 h bevisually eas mined 特点意思于实现的上年期一单重要取消解释 0.75mm 別回譯 55 Hz to10Hz-分钟,刘三个重要互向容试道2小时,然后经1	y cycles (10 Hz to 55 Hz to 10 ours. Thereafter, the unit shall 们.5mm .极动频率周期为10Hzto	
Soider adilty 即接性 IEC 60068-2-20	After dipping the terminals to a depth of a pproxim soldering bath of 250±5°C for 2±0.5 seconds, t examined 将成品引送部分後人道度为260±5°C様5°中, 使入深度力 秒。	Approximately 95% of the terminals shal be covered with solder uni-formly 引脚約95%沾满焊细	
Capacitance 电容	After each lead shall be dipped into a solder bath har a point 2.0 to 2.5 mm from the body of the unit, usin held there for specified time (5D series: 515 and stored at room temperature and humidity for 1 to mechanical damages are examind. 将每一引线变入温度为260±5°C爆即中,使入渴度为高本体, 它为10=15.4%的优后算于常温常和1-2小技术后高温度致	VcmA/VcmAs±5 % No outstanding damage 无外在损伤	

环境特性 Environmental

Specifications 栽格值	Test Methods 测试方法				TestItem/Standard 测试项目/标准
	1000 hours in a thermostatic bath ireand humidity for 1 to 2 hours. IO小时,试验后置于室道中1-2小时,	it room temperatu II be measured.	and then stored ie change of Vc sh 小加负载且温度为12	without load Thereafter, th	High Temperature Storage/Dry Heat 高温依存 IEC 60068-2-2
-VcmA/VcmAs±5	o 95%RH for 1000 hours without humidity for one to two hours. 0-95%恆温恆湿相中1000小时,试验	temperature and III be measured. ±2℃,相对湿度为9	n stored at room ie change of Vc sh	load and the Thereafter, th 将成品置于无例	Damp Heat/ Humidity (Steady State) 耐湿性 IEC 60068-2-78
	ated five times and then stored at vo hours. The change ofVc and 中1-2小时,然后则最其压敏电压变化	ity for one to the mined.	rature and humic amage shall be ex	room tempe mechanical d	Temperature Cycle
		Period(minutes)	Temperature(1)	Step	温度周期 IEC 60068-2-14
		30 ± 3	-40±3	1	
		15±3 30±3	Roomtemperature 125 x 2	2	
		1543	Roomtemperature	4	
+VcmA/VcmA≤±1i %	Allowable Voltageat85±2*C for m temperature and humidity for I be measured. 墓中1000小时,试验約置于変選中1-	ll be stored at roc change of Vc sha g为85±2%℃的高温	The specimen sha ours Thereafter, th	1000 hours. one to two ho 将成品接于外t	High Temperature Load/Dry Heat Load 高澄加帳 ML-STD-202- Method-108
=VcmA/VcmA≤±1	10 to 95%RH and the Maximum tored at room temperature and nge of Vc shall be measured. 温度为90-95%恒星恒湿箱中1000小 收倍.	ours and then s Thereafter, the cha	oltage for 1000 f one to two hours. 如最大容许电压且语	Allowable Ve humidity for 格成品接于外	Damp Heat Load/ Humidity Load 高湿加载 IEC 60068-2-3



Product Description:

MOV 25mm series varistor surge absorber is an overvoltage protection device with the surge absorbing capability. It is designed to _____ absorb surges above the rated voltage and provide protection against transient overvoltage. It has a maximum absorbed energy of 0.4-22.4(J), a maximum allowable voltage of DC 14V-615V, a maximum current capacity of 100-400(A), and a size of 5mm. It also has a reference capacitance of 1400-30(@1KHZ(pf), making it an ideal choice for overvoltage protection. The MOV 25mm series varistor surge absorber is designed to be reliable and durable, providing reliable surge protection for a variety of industrial applications. It is suitable for all kinds of power electronic equipment that requires protection from transient overvoltage. The MOV 25mm series varistor surge absorber is an excellent choice for high-performance overvoltage protection and reliable surge absorption.

Features:

MOV varistor Maximum absorbed energy (10/1000)us: 0.4-22.4(J) High Surge: 0.6-32J MOV 14mm series varistor surge absorber MOV 5mm series varistor surge absorber MOV 20mm series varistor surge absorber Size: 5mm Storage Temperature: -40°C~+105°C

Technical Parameters:

Property	Value
Size	5mm

Maximum allowable voltage	DC 14V-615V
Product name	MOV Varistor
Storage Temperature	-40°C~+105°C
Maximum absorbed energy (10/1000)us	0.4-22.4(J)
Power consumption	0.01-0.1(W)
Varistor operating voltage	18V-750V
Maximum current capacity (8/20) us	100-400(A)
Inhibition voltage (8/20) us	Vc 40-1240v
Reference capacitance	1400-30(@1KHZ(pf)

Applications:

LIN KUN MOV varistor surge absorber is a reliable and cost-effective solution for the protection of electrical and electronic equipment, which is widely used in the fields of communications, instrumentation, medical equipment, aerospace, military and other industries. It is made of zinc oxide material and has a maximum absorbing energy (10/1000)us of 0.4-22.4J, inhibition voltage (8/20) us of Vc 40-1240v, high surge of 0.6-32J, power consumption of 0.01-0.1W and maximum allowable voltage of DC 14V-615V. Its 25mm series varistor surge absorber, 14mm series varistor surge absorber and 20mm series varistor surge absorber are widely applied in AC/DC circuit, power supply, battery pack, data transmission and other systems to protect them from spike and surge. LIN KUN MOV varistor surge absorber is a great choice for your power system to ensure its safe operation.

Customization:

Support and Services:

We provide technical support and service for MOV varistors: 24/7 online technical support Onsite installation and maintenance service Free repair and replacement services Regular maintenance and upgrade services

Packing and Shipping:

Packaging and Shipping for MOV Varistor: The MOV Varistor is securely packaged in antistatic bags and then placed in a corrugated box for shipping. All shipments are insured for the full value and tracked with a traceable parcel ID number.

FAQ:

- Q1: What is the brand of MOV varistor?
- A1: The brand of MOV varistor is LIN KUN.
- Q2: What is the model number of MOV varistor?
- A2: The model number of MOV varistor is MOV varistor surge absorber.
- Q3: Where is MOV varistor produced?
- A3: MOV varistor is produced in China.
- Q4: What is the function of MOV varistor?
- A4: MOV varistor can absorb surge and protect electrical equipment.
- Q5: What is the size of MOV varistor?
- A5: The size of MOV varistor is determined by the specific product.

