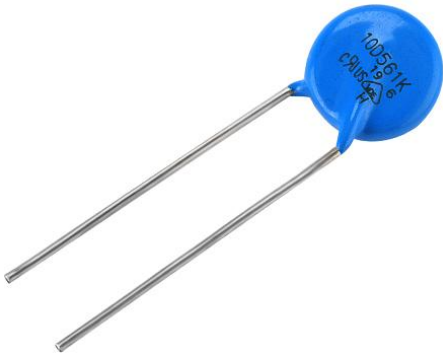


Metal Oxide Varistors (MOV)

Features

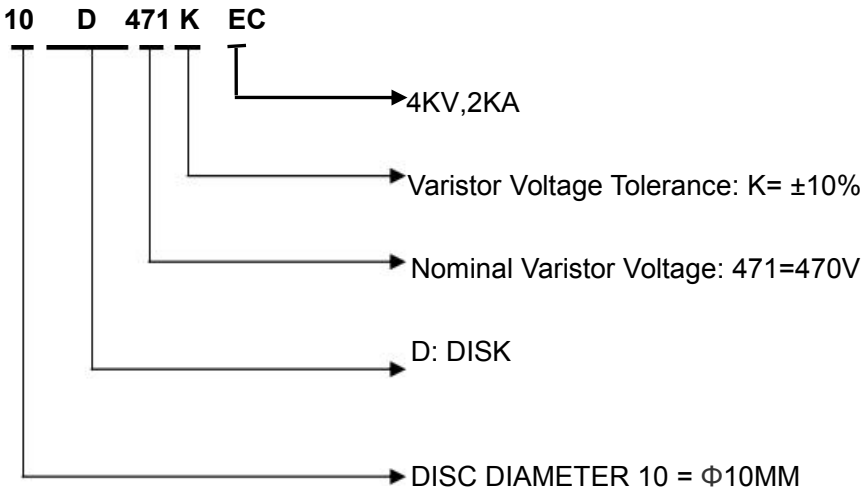
- Wide operating voltage (V1mA) range from 18V to 1100V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- Operating Temperature: -40℃ ~ +85℃
- Storage Temperature: -40℃ ~ +125℃
- Safety certification:



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

Description of Part Number



Delivery Time

4KV/2KA MOV	Delivery Time
10D820KEC ~ 10D821KEC	14days

Electrical Characteristics

Part Number	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage	Withstanding Surge Current	Maximum Energy (10/1000μs)	Typical Capacitance (Reference)	Safety Certification	
4KV/2KA MOV	V _{AC} (V)	V _{DC} (V)	V _{1mA} (V)	V _C (V) AT 25A	1.2/50us & 8/20us combination of wave,4KV/2KA Sub 0,90,180,270 four phases,Total	(J) High Surge	1KHz(pf)	UL/CUL	VDE
10D820KEC	50	65	82(73.8~90.2)	135	40times	17.0	1200	√	√
10D101KEC	60	85	100(90~110)	165	40times	18.0	1000	√	√
10D121KEC	75	100	120(108~132)	200	40times	21.0	830	√	√
10D151KEC	95	125	150(135~165)	250	40times	25.0	670	√	√
10D181KEC	115	150	180(162~198)	300	40times	30.0	560	√	√
10D201KEC	130	170	200(180~220)	340	40times	35.0	500	√	√
10D221KEC	140	180	220(198~242)	360	40times	39.0	450	√	√
10D241KEC	150	200	240(216~264)	395	40times	42.0	420	√	√
10D271KEC	175	225	270(243~297)	455	40times	49.0	370	√	√
10D301KEC	190	250	300(270~330)	500	40times	54.0	330	√	√
10D331KEC	210	275	330(297~363)	550	40times	58.0	300	√	√
10D361KEC	230	300	360(324~396)	595	40times	65.0	280	√	√
10D391KEC	250	320	390(351~429)	650	40times	70.0	260	√	√
10D431KEC	275	350	430(387~473)	710	40times	80.0	230	√	√
10D471KEC	300	385	470(423~517)	775	40times	85.0	210	√	√
10D511KEC	320	415	510(459~561)	845	40times	90.0	200	√	√
10D561KEC	350	460	560(504~616)	925	40times	92.0	180	√	√
10D621KEC	385	505	620(558~682)	1025	40times	95.0	160	√	√
10D681KEC	420	560	680(612~748)	1120	40times	98.0	150	√	√
10D751KEC	460	615	750(675~825)	1240	40times	100.0	130	√	√
10D781KEC	485	640	780(702~858)	1290	40times	105.0	130	√	√
10D821KEC	510	670	820(738~902)	1355	40times	110.0	120	√	√

Dimension(mm)

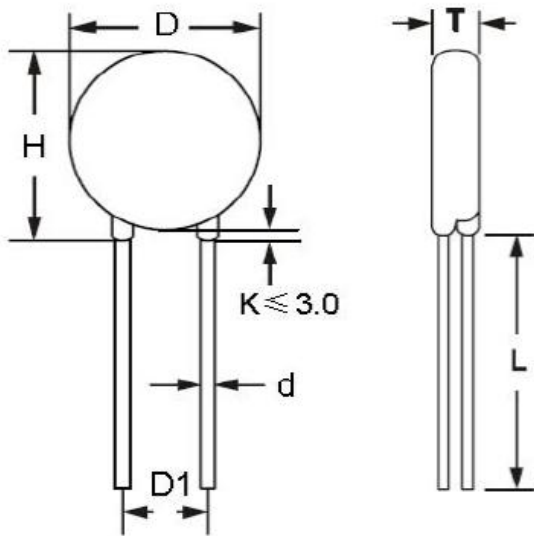


TABLE1		TABLE2			
Symbol	Dimensions	Part number	T(±1.0mm)	Part number	T(±1.0mm)
H(Max)	16.5mm	10D820K	2.6mm	10D361K	3.9mm
L(Min)	22.0mm	10D101K	2.8mm	10D391K	4.4mm
D(Max)	12.5mm	10D121K	3.0mm	10D431K	4.4mm
D1(±0.8)	7.5mm	10D151K	3.3mm	10D471K	4.6mm
T	TABLE2	10D181K	2.7mm	10D511K	4.7mm
d(±0.05)	0.8mm	10D201K	2.9mm	10D561K	4.9mm
		10D221K	3.0mm	10D621K	5.2mm
		10D241K	3.1mm	10D681K	5.5mm
		10D271K	3.3mm	10D751K	5.9mm
		10D301K	3.4mm	10D781K	6.0mm
		10D331K	3.7mm	10D821K	6.2mm

Packing Information

Part Number	Quantity	Packaging Option	Packaging Specification
10DxxxKEC	500PCS	Plastic bag	Bulk Pack

Notice for use

To avoid damage to other equipment due to fire or deterioration caused by varistor, please refer to and observe the following principles:

1) When a high current or high voltage flows into the varistor, the varistor itself may be damaged, heated, smoke, catch fire and burst.

To avoid this, fuses or circuit breakers can be installed at both ends of the varistor or power supply;

The fuses of the following specifications are for reference only:

	Diameter 05D	07D	10D	14D	20D
Rated current of fuse	1-2A	2-3A	3-5A	3-10A	5-15A

2) Do not allow the current and energy flowing into the varistor to exceed its rated value.

3) The Varistor brand names and marks are all patent applications of the company. Customers who use or sell our Varistors that are not specifically designated for such applications are at their own risk.

4) All Varistors product specifications and data are subject to change without notice, please improve. For any data sheet Or any other data sheet. Any errors included. Inaccurate or incomplete shall not be liable.

5) Regarding the suitability of products for specific applications. It is the customer's responsibility to confirm that products with the characteristics described in the product specifications application. The data provided in the parameter data sheets and / or specifications may vary for different applications and performance may vary over time Variety. All operating parameters, including typical parameters, must be provided by the customer's technical experts. Product specifications will not expand or Modify the procurement terms and conditions in other ways, including but not limited to the guarantees described therein.

6) Do not place flammable substances near the varistor.

7) The varistor can only emit a small amount of heat energy, so it is not suitable for use in equipment that often generates sudden heat.

In addition, the higher the working environment of the varistor, the smaller the proportion of heat dissipated.

Varistors can only dissipate a small amount of heat energy, so they are not suitable for use in equipment that often generates sudden heat.

If a large amount of heat acts on the varistor in an instant, it is possible that the heat energy cannot be dissipated within the pulse time And the varistor is damaged.

8) When welding, please be careful not to melt the welding points of the varistor and the resin coating.

Material category policy

All our Varistor products hereby certify that RoHS-compliant products are in accordance with the definitions and

Restrictions on June 8, 2011 regarding restrictions on the use of certain hazardous substances (Reach) in electrical and electronic equipment. We confirm All our Varistor products comply with the IEC 61249-2-21 JEDEC JS709A standard.