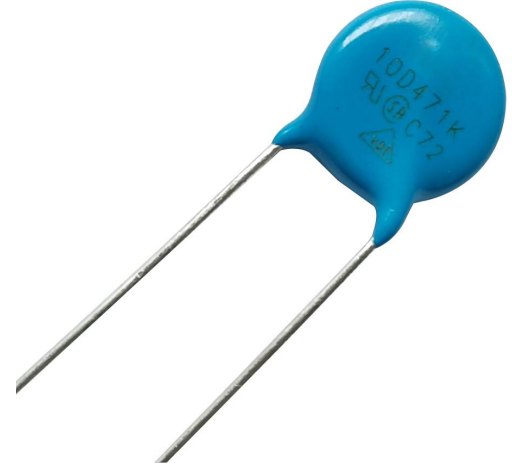


Metal Oxide Varistors (MOV) Data sheet

Features

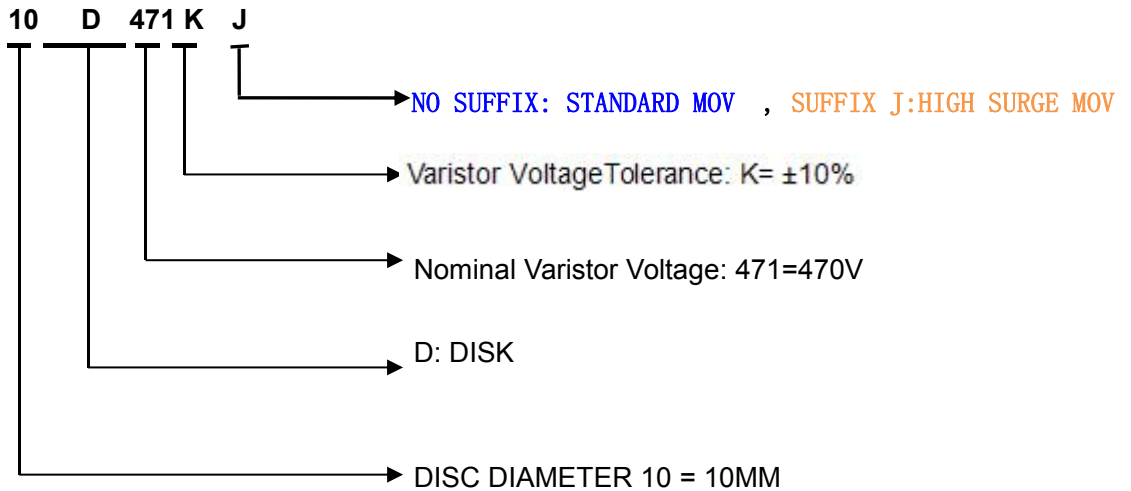
- Wide operating voltage (V1mA) range from 18V to 1100V
- Fast responding to transient over-voltage
- Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- Safety certification: UL1414,UL1449,CSA,VDE
- Operating Temperature: -40°C ~ +85°C
- Storage Temperature: -40°C ~ +125°C



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



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Electrical Characteristics



Part Number		Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Withstanding Surge Current 8/20uS		Maximum Energy (10/1000µs)		Rated Power	Typical Capacitance (Reference)
Standard	High Surge	V _{AC} (V)	V _{DC} (V)	V _{1mA} (V)	I _P (A)	V _C (V)	I(A)	I(A)	(J)	(J)	(W)	1KHz(pf)
							Standard	High Surge	Standard	High Surge		
10D180K	10D180KJ	11	14	18(15~21.6)	5	36	500	1000	2.1	3.0	0.05	5600
10D220K	10D220KJ	14	18	22(19.5~26)	5	43	500	1000	2.5	5.0	0.05	4500
10D270K	10D270KJ	17	22	27(24~30)	5	53	500	1000	3	6.0	0.05	3700
10D330K	10D330KJ	20	26	33(29.5~36.5)	5	66	500	1000	4	7.0	0.05	3000
10D390K	10D390KJ	25	31	39(35~43)	5	77	500	1000	4.6	9.0	0.05	2400
10D470K	10D470KJ	30	38	47(42~54)	5	93	500	1000	5.5	11.0	0.05	2100
10D560K	10D560KJ	35	45	56(50~62)	5	100	500	1000	7	13.0	0.05	1800
10D680K	10D680KJ	40	56	68(61~75)	5	135	500	1000	8.2	15.0	0.05	1500
10D820K	10D820KJ	50	65	82(74~90)	25	135	2500	3500	12	17.0	0.4	1200
10D101K	10D101KJ	60	85	100(90~110)	25	165	2500	3500	15	18.0	0.4	1000
10D121K	10D121KJ	75	100	120(108~132)	25	200	2500	3500	18	21.0	0.4	830
10D151K	10D151KJ	95	125	150(135~165)	25	250	2500	3500	22	25.0	0.4	670
10D181K	10D181KJ	115	150	180(162~198)	25	300	2500	3500	27	30.0	0.4	560
10D201K	10D201KJ	130	170	200(180~220)	25	340	2500	3500	30	35.0	0.4	500
10D221K	10D221KJ	140	180	220(198~242)	25	360	2500	3500	32	39.0	0.4	450
10D241K	10D241KJ	150	200	240(216~264)	25	395	2500	3500	35	42.0	0.4	420
10D271K	10D271KJ	175	225	270(243~297)	25	455	2500	3500	40	49.0	0.4	370
10D301K	10D301KJ	190	250	300(270~330)	25	500	2500	3500	40	54.0	0.4	330
10D331K	10D331KJ	210	275	330(297~363)	25	550	2500	3500	40	58.0	0.4	300
10D361K	10D361KJ	230	300	360(324~396)	25	595	2500	3500	43	65.0	0.4	280
10D391K	10D391KJ	250	320	390(351~429)	25	650	2500	3500	47	70.0	0.4	260
10D431K	10D431KJ	275	350	430(387~473)	25	710	2500	3500	60	80.0	0.4	230
10D471K	10D471KJ	300	385	470(423~517)	25	775	2500	3500	65	85.0	0.4	210
10D511K	10D511KJ	320	415	510(459~561)	25	845	2500	3500	70	90.0	0.4	200
10D561K	10D561KJ	350	460	560(504~616)	25	925	2500	3500	70	92.0	0.4	180
10D621K	10D621KJ	385	505	620(558~682)	25	1025	2500	3500	70	95.0	0.4	160
10D681K	10D681KJ	420	560	680(612~748)	25	1120	2500	3500	70	98.0	0.4	150
10D751K	10D751KJ	460	615	750(675~825)	25	1240	2500	3500	70	100.0	0.4	130
10D781K	10D781KJ	485	640	780(702~858)	25	1290	2500	3500	80	105.0	0.4	130
10D821K	10D821KJ	510	670	820(738~902)	25	1355	2500	3500	85	110.0	0.4	120
10D911K	10D911KJ	550	745	910(819~1001)	25	1500	2500	3500	93	130.0	0.4	110
10D102K	10D102KJ	625	825	1000(900~1100)	25	1650	2500	3500	102	140.0	0.4	100
10D112K	10D112KJ	680	895	1100(990~1210)	25	1815	2500	3500	115	155.0	0.4	90

Dimension(mm)

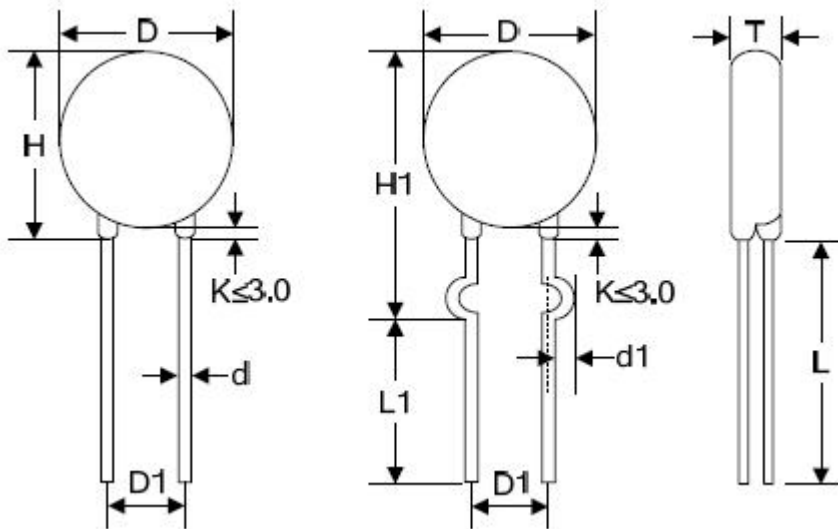


TABLE 1

Symbol	Dimensions
H(max.)	16.5
H1(max.)	17.5
L(min.)	20.0
L1(min.)	15.0
D(max.)	12.5
D1(±0.8)	7.5
T(max.)	TABLE 2
d(±0.05)	0.8
d1(±0.4)	1.4

TABLE 2

Model	T(max.)	Model	T(max.)
180K	4.6	301K	5.5
220K	4.7	331K	5.8
270K	4.8	361K	6.0
330K	5.0	391K	6.2
390K	5.3	431K	6.5
470K	5.4	471K	6.7
560K	5.5	511K	6.8
680K	5.6	561K	7.0
820K	4.7	621K	7.3
101K	4.9	681K	7.6
121K	5.1	751K	8.0
151K	5.4	781K	8.1
181K	4.8	821K	8.3
201K	5.0	911K	8.8
221K	5.1	102K	9.3
241K	5.2	112K	9.9
271K	5.4	182K	10.0

Packing Information

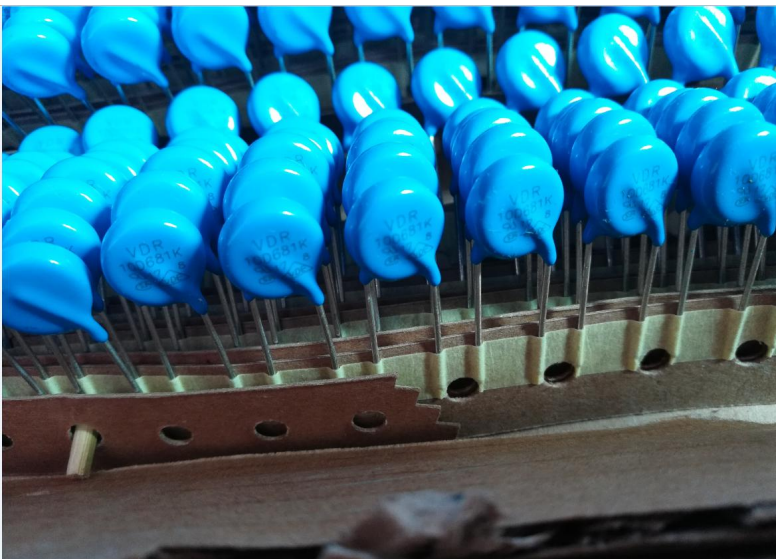
Part Number	Quantity	Packaging Option	Packaging Specification
10DxxxK	500PCS	Plastic bag	Bulk Pack

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Bulk Pack



Ammo Pack



sales@huaandz.com