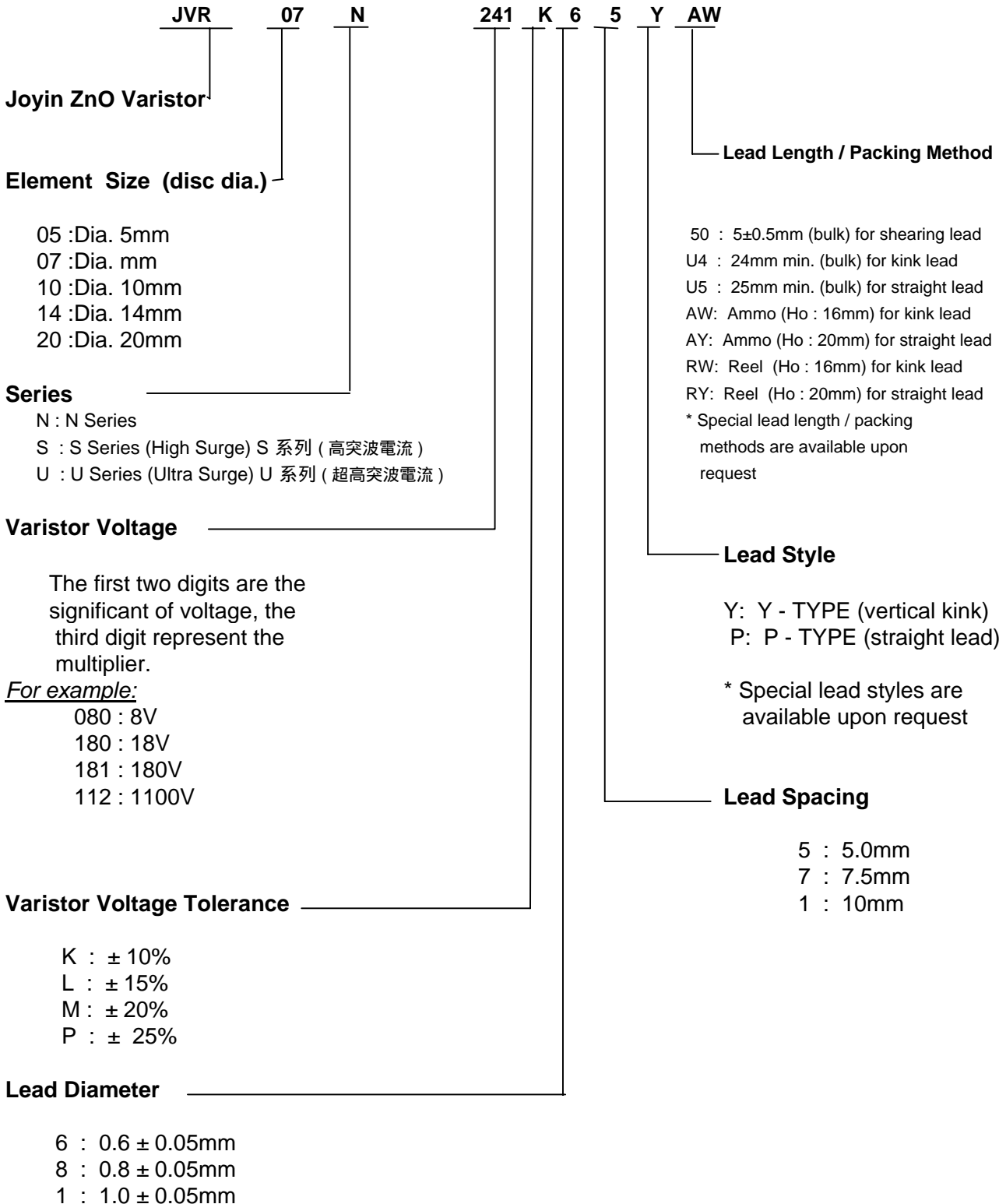




HOW TO ORDER BY PART NUMBER





RATING AND CHARACTERISTICS

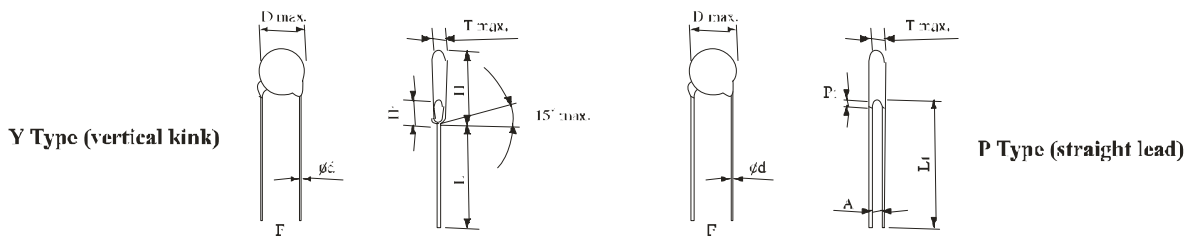
φ 10 mm

Part Number	Varistor Voltage V@1 mA		Maximum Allowable Voltage		Maximum Clamping Voltage	Withstanding Surge Current (8/20mS)		Rated Wattage	Energy (10/100ms)	Certification
	DC (V)	Tolerance	ACrms (V)	DC (V)	V@25 A (V)	1 Time (A)	2 Time (A)	(W)	(J)	
JVR10N180M87	18	± 20%	11	14	36 <sup>1)</sup>	500	250	0.05	2.4	☆ ☆
JVR10N220L87	22	± 15%	14	18	43				2.7	☆ ☆
JVR10N270K87	27	± 10%	17	22	53				3.5	☆ ☆
JVR10N330K87	33		20	26	65				4.4	☆ ☆
JVR10N390K87	39		25	31	77				4.7	☆ ☆
JVR10N470K87	47		30	38	93				6.0	☆ ☆
JVR10N560K87	56		35	45	110				7.0	☆ ☆
JVR10N680K87	68		40	56	135				8.5	☆ ☆
JVR10N820K87	82		50	65	135	2500	1250	0.4	11.0	☆ ☆
JVR10N101K87	100		60	85	165				14.0	☆ ☆
JVR10N121K87	120	75	100	200	16.0				☆ ☆	
JVR10N151K87	150	95	125	250	22.0				☆ ☆	
JVR10N181K87	180	115	150	300	26.0				☆ ☆	
JVR10N201K87	200	130	170	340	28.5				★ ☆ ★ ☆	
JVR10N221K87	220	140	180	360	31.0				★ ☆ ★ ☆	
JVR10N241K87	240	150	200	395	33.5				★ ☆ ★ ☆	
JVR10N271K87	270	175	225	455	39.5				★ ☆ ★ ☆	
JVR10N301K87	300	195	250	505	42.0				★ ☆ ★ ☆	
JVR10N331K87	330	210	275	550	46.0				★ ☆ ★ ☆	
JVR10N361K87	360	230	300	595	52.0				★ ☆ ★ ☆	
JVR10N391K87	390	250	320	650	60.0				★ ☆ ★ ☆	
JVR10N431K87	430	275	350	710	66.0				★ ☆ ★ ☆	
JVR10N471K87	470	300	385	775	70.0				★ ☆ ★ ☆	
JVR10N511K87	510	320	418	842	74.0				★ ☆ ★ ☆	
JVR10N561K87	560	350	460	920	78.0				★ ☆ ★	
JVR10N621K87	620	385	505	1025	82.0				★ ☆ ★	
JVR10N681K87	680	420	560	1120	86.0	★ ☆ ★				
JVR10N751K87	750	460	615	1240	90.0	★ ☆ ★				
JVR10N781K87	780	485	640	1290	92.0	★ ☆ ★				
JVR10N821K87	820	510	670	1355	94.0	★ ☆ ★				
JVR10N911K87	910	550	745	1500	102.0	★ ☆ ★				
JVR10N102K87	1000	625	825	1650	112.0	★ ☆ ★				
JVR10N112K87	1100	680	895	1815	124.0	★ ☆ ★				
JVR10N182K87	1800	1000	1465	2970	174.0					

1 ) The clamping voltage from 180M to 680K are tested with current 5A.

- : Lead Style
- Y : Vertical Kink (Standard)
- P : Straight Leads
- : Lead length / Packing Method





Dimension Table

Dimension	Dia. 5	Dia. 7	Dia. 10	Dia. 14	Dia. 20
D max.	7.5	9.0	12.5	16.5	23.0
d±0.05	0.6	0.6	0.6/0.8	0.8/1.0	0.8/1.0
F±1.0	5.0	5.0	5.0/7.5	7.5/10.0	7.5/10.0
H max.	11.0	13.0	18.0	22.0	28.0
H1 max.	3.5	3.5	5.0	5.0	5.0
L1 max.	25.0	25.0	25.0	25.0	25.0
L max.	24.0	24.0	24.0	24.0	24.0

Table of T max., A & P1 max.

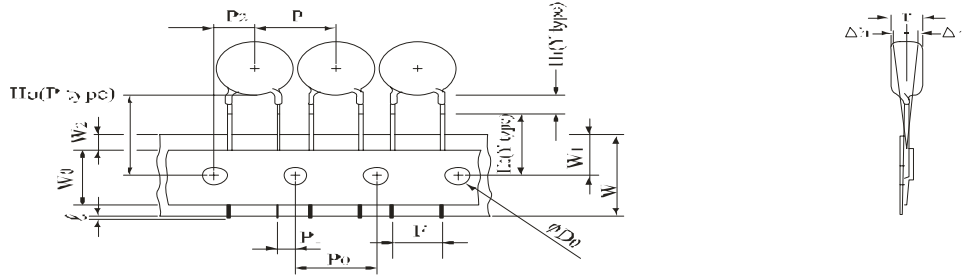
Unit:mm

Diameter Type No.	Dia. 5			Dia. 7			Dia. 10			Dia. 14			Dia. 20		
	T max.	A±0.8	P1max.	T max.	A±0.8	P1max.	T max.	A±0.8	P1max.	T max.	A±0.8	P1max.	T max.	A±0.8	P1max.
180M	4.5	1.4	3.0	4.5	1.4	3.0	4.9	1.4	3.0	5.0	1.5	3.0	5.2	1.5	3.5
220L	4.5	1.5	3.0	4.5	1.5	3.0	4.9	1.5	3.0	5.0	1.6	3.0	5.3	1.6	3.5
270K	4.7	1.5	3.0	4.7	1.5	3.0	5.1	1.5	3.0	5.2	1.7	3.0	5.4	1.7	3.5
330K	4.7	1.6	3.0	4.7	1.6	3.0	5.1	1.6	3.0	5.2	1.8	3.0	5.4	1.8	3.5
390K	4.7	1.8	3.0	4.7	1.8	3.0	5.1	1.8	3.0	5.2	2.0	3.0	5.4	2.0	3.5
470K	5.0	1.8	3.0	5.0	1.8	3.0	5.5	1.8	3.0	5.6	2.0	3.0	5.6	2.0	3.5
560K	5.0	2.0	3.0	5.0	2.0	3.0	5.5	2.0	3.0	5.6	2.2	3.0	5.6	2.2	3.5
680K	5.5	2.3	3.0	5.5	2.3	3.0	6.0	2.3	3.0	6.1	2.5	3.0	6.1	2.5	3.5
820K	3.8	1.4	3.0	3.8	1.4	3.0	4.3	1.4	3.0	4.4	1.6	3.0	4.9	1.8	3.5
101K	3.9	1.4	3.0	3.9	1.4	3.0	4.4	1.4	3.0	4.5	1.6	3.0	5.1	1.8	3.5
121K	4.1	1.5	3.0	4.1	1.5	3.0	4.5	1.5	3.0	4.6	1.7	3.0	5.3	1.9	3.5
151K	4.5	1.8	3.0	4.5	1.8	3.0	4.9	1.8	3.0	5.1	2.0	3.0	5.6	2.2	3.5
181K	4.1	1.6	3.0	4.1	1.6	3.0	4.5	1.6	3.0	4.7	1.8	3.0	5.2	2.0	3.5
201K	4.2	1.6	3.0	4.2	1.6	3.0	4.6	1.6	3.0	4.8	1.8	3.0	5.3	2.0	3.5
221K	4.3	1.7	3.0	4.3	1.7	3.0	4.7	1.7	3.0	4.9	1.9	3.0	5.4	2.1	3.5
241K	4.4	1.7	3.0	4.4	1.9	3.0	4.8	1.9	3.0	5.0	2.1	3.0	5.5	2.3	3.5
271K	4.6	1.9	3.0	4.6	2.0	3.0	5.0	2.0	3.0	5.2	2.1	3.0	5.7	2.5	3.5
301K	4.8	1.9	3.0	4.8	2.1	3.0	5.2	2.2	3.0	5.4	2.3	3.0	5.9	2.7	3.5
331K	4.9	1.9	3.0	4.9	2.1	3.0	5.3	2.2	3.0	5.5	2.3	3.0	6.0	2.7	3.5
361K	5.1	2.4	3.0	5.1	2.5	3.0	5.5	2.5	3.0	5.7	2.7	3.0	6.2	2.9	3.5
391K	5.3	2.6	3.5	5.3	2.6	3.5	5.7	2.8	3.5	5.9	2.8	3.5	6.4	3.0	3.5
431K	6.1	2.7	3.5	6.1	2.9	3.5	6.5	3.1	3.5	6.7	3.1	3.5	7.2	3.3	3.5
471K	6.4	2.8	3.5	6.4	2.9	3.5	6.8	3.2	3.5	7.0	3.3	3.5	7.5	3.5	4.0
511K	6.6	3.1	4.0	6.6	3.1	4.0	7.0	3.7	4.0	7.2	3.7	4.0	7.7	3.9	4.0
561K	6.9	3.4	4.0	6.9	3.4	4.0	7.3	4.0	4.0	7.5	4.0	4.0	8.0	4.2	4.0
621K	7.2	3.7	4.0	7.2	3.7	4.0	7.6	4.6	4.0	7.8	4.4	4.0	8.3	4.7	4.0
681K	7.5	4.0	4.0	7.5	4.0	4.0	8.0	5.0	4.0	8.2	4.7	4.0	8.7	5.0	4.0
751K	7.9	4.3	4.0	7.9	4.3	4.0	8.4	5.0	4.0	8.6	4.9	4.0	9.1	5.1	4.0
781K	-	-	-	8.1	4.5	4.0	8.6	5.2	4.0	8.8	5.2	4.0	9.3	5.4	4.0
821K	-	-	-	8.3	4.7	4.0	8.8	5.2	4.0	9.0	5.2	4.0	9.5	5.4	4.0
911K	-	-	-	-	-	-	9.4	6.0	4.0	9.6	6.0	4.0	10.1	6.3	4.0
102K	-	-	-	-	-	-	9.9	6.0	4.0	10.1	6.2	4.0	10.7	6.4	4.0
112K	-	-	-	-	-	-	10.5	6.3	4.0	10.7	6.7	4.0	11.2	6.9	4.0
182K	-	-	-	-	-	-	12.6	9.8	6.0	12.8	10.2	6.0	13.5	10.4	6.0

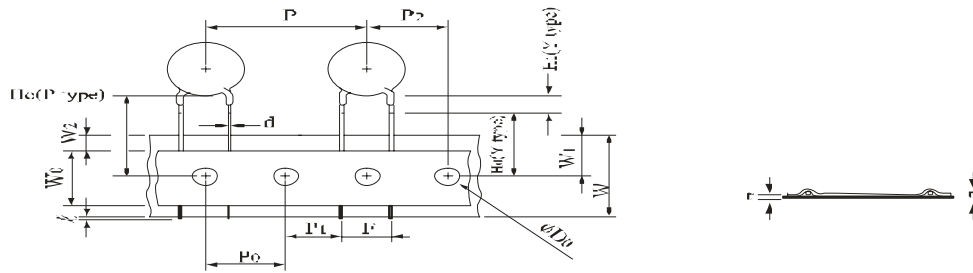


**DIMENSION OF TAPING PRODUCT**

1/2" pitch



1.0" pitch



Symbols	Item	Dia. 5/ 7	Dia. 10	Dia. 10/14/20	Dia. 14/ 20
	Cut out length	1.1 mm max.		1.1 mm max.	
H1( Y type )	Height of kink	3.5mm max	5.0mm max	5.0mm max.	
H0(Y type )	Height to seating plane	16.0 ± 0.5mm		16.0 ± 0.5 mm	
H0(P type )	Height of component from hole center	16.0~21.0mm		16.0~21.0 mm	
h	Front to back deviation	0 ± 2.0mm		0 ± 2.0 mm	
W	Carrier tape width	18.0 ± <sup>1.0</sup> <sub>0.5</sub> mm		18.0 ± <sup>1.0</sup> <sub>0.5</sub> mm	
W0	Hold wown tape width	10.0 mm		12.0 mm	
W1	Sprocket hole position	9.0 ± <sup>0.75</sup> <sub>0.5</sub> mm		9.0 ± <sup>0.75</sup> <sub>0.5</sub> mm	
W2	Adhesive tape position	3.0 mm max.		3.0 mm max.	
F	Component lead spacing	5.0 ± <sup>0.8</sup> <sub>0.2</sub> mm		7.5± <sup>0.8</sup> <sub>0.2</sub> mm	10.0± <sup>0.8</sup> <sub>0.2</sub> mm
P	Pitch of component	12.7 ± 1.0 mm		25.4 ± 1.0 mm	
P0	Sprocket hole pitch	12.7 ± 0.3 mm		12.7 ± 0.3 mm	
P1	Lead length from hole center to lead	3.85 ± 0.7 mm		8.95±0.7 mm	7.7 ± 0.7 mm
P2	Length from hole center to disk center	6.35 ± 1.3 mm		12.7 ± 1.3 mm	
D0	Sprocket hole diameter	4.0 ± 0.2 mm		4.0 ± 0.2 mm	
d	Lead wire diameter	0.6 ± 0.05 mm		0.8 ± 0.05 mm	1.0±0.05 mm
T	Disk thickness	See T max. table		See T max. table	
t1	Total thickness tape	0.7 ± 0.05 mm		0.7 ± 0.05 mm	
t2	Total thickness	1.6 mm max.		1.8 mm max.	



Prepared By: Leo Wong  
DOC. No: JVR10N Series



## REVIEW OF SPECIFICATIONS

- 1) When something get doubtful with this specifications, we shall jointly work to get an agreement.
- 2) This specification limits the quality of the components as a single unit. Please insure the component is thoroughly evaluated in your application circuit.
- 3) Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.
- 4) Please return one of this specification after your signature of acceptance. In case of no return within 3 months from submission date. This specification should be treated as accepted.

### **When using our products, the following precautions should be taken.**

- (1) Safety designing of apparatus or a system allowing for failures of electronic components used in the system  
In general, failures will occur in electronic components at a certain probability. MOBICON HOLDINGS LTD makes every effort to improve the quality and reliability of electronic component products. However, it is impossible to completely eliminate the probability of failures. Therefore, when using MOBICON HOLDINGS LTD electronic component products, systems should be carefully designed to ensure redundancy in the event of an accident which would result in injury or death, fire, or social damage, to ensure the prevention of the spread of fire, and the prevention of faulty operation.
- (2) Quality Level of various kinds of parts, and equipment in which the parts can be utilized  
Electronic components have a standard quality level unless otherwise specified.
- (3) This specifications is subject to change without notice.  
The contents of this specifications are based on data which is correct as of 2002, and they may be changed without notice. If our products are used for mass-production design, please enquire consult with a member of our company's sales staff by way of precaution.
- (4) Reprinting and copying of this specifications without prior written permission from MOBICON HOLDINGS LTD are not permitted.
- (5) Industrial Property Problems  
In the event any problems associated with industrial property of a third party arising as a result of the use of our products. MOBICON HOLDINGS LTD assumes no responsibility for problems other than problems directly associated with the constitution and manufacturing method of the products.

