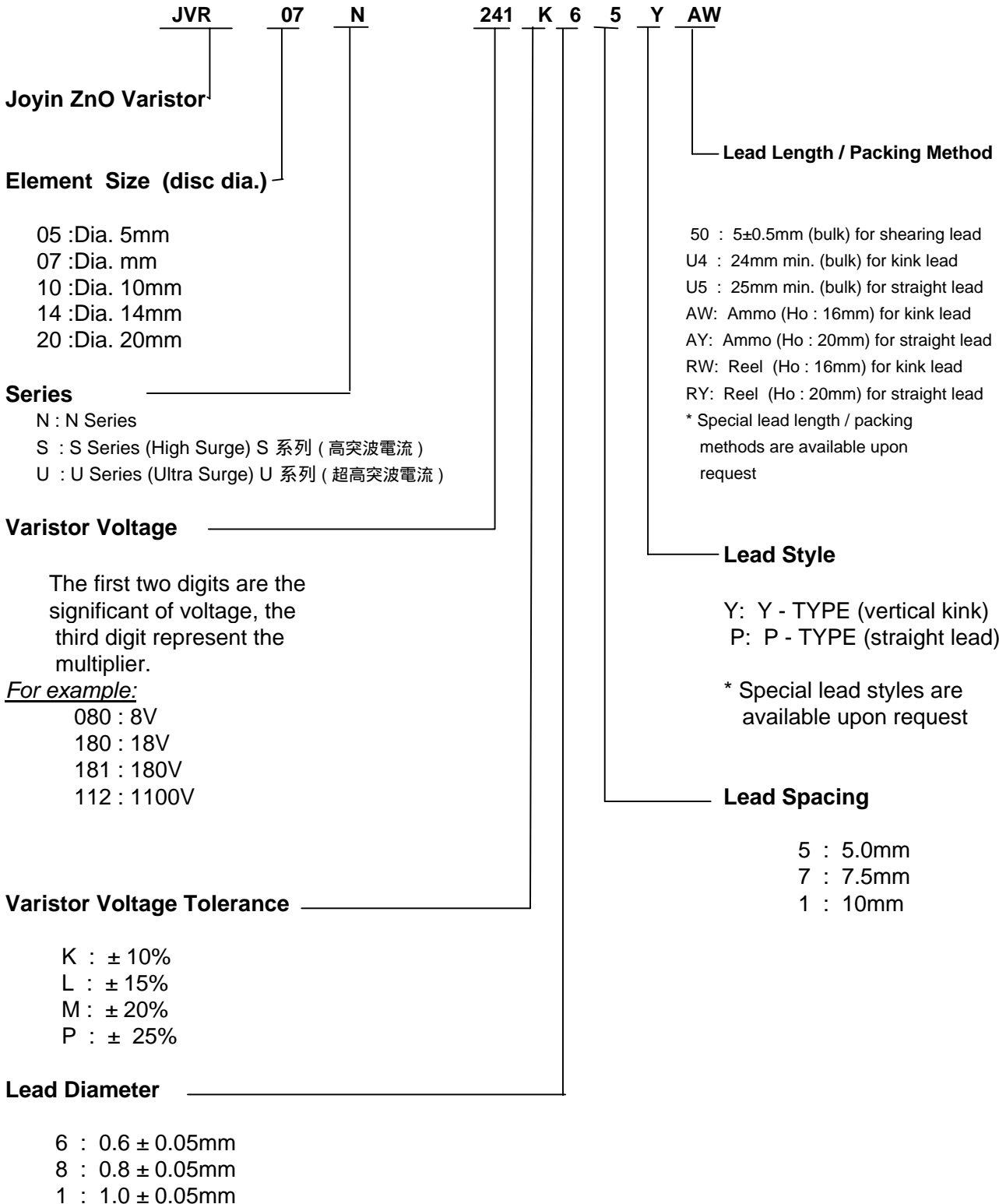




HOW TO ORDER BY PART NUMBER





## RATING AND CHARACTERISTICS

φ 5 mm

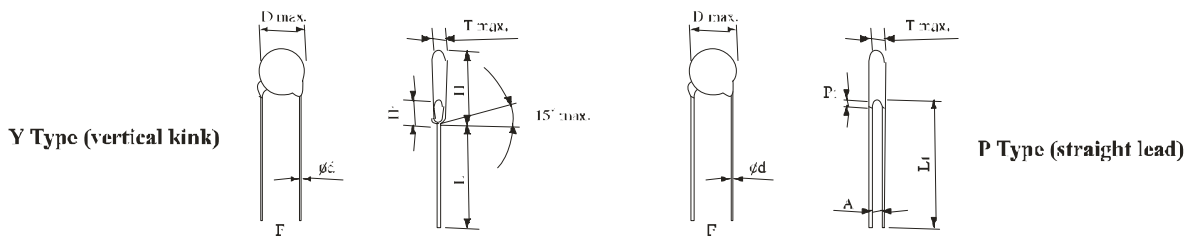
Part Number	Varistor Voltage <u>V@0.1mA</u>		Maximum Allowable Voltage		Maximum Clamping Voltage	Withstanding Surge Current (8/20mS)		Rated Wattage	Energy (10/100ms)	Certification
	DC (V)	Tolerance	ACrms (V)	DC (V)	<u>V@5A</u> (V)	1 Time (A)	2 Time (A)	(W)	(J)	
JVR05N180M65	18	± 20%	11	14	1) 40	100	50	0.01	0.6	
JVR05N220L65	22	± 15%	14	18	48				0.7	
JVR05N270K65	27		17	22	60				0.9	
JVR05N330K65	33		20	26	73				1.1	
JVR05N390K65	39		25	31	86				1.2	
JVR05N470K65	47		30	38	104				1.5	
JVR05N560K65	56		35	45	123				1.8	
JVR05N680K65	68		40	56	150				2.1	
JVR05N820K65	82	± 10%	50	65	145	400	200	0.1	2.8	☆ ☆
JVR05N101K65	100		60	85	175				3.5	☆ ☆
JVR05N121K65	120		75	100	210				4.0	☆ ☆
JVR05N151K65	150		95	125	260				5.5	☆ ☆
JVR05N181K65	180		115	150	320				6.5	☆ ☆
JVR05N201K65	200		130	170	355				7.1	★ ☆ ★ ☆
JVR05N221K65	220		140	180	380				7.8	★ ☆ ★ ☆
JVR05N241K65	240		150	200	415				8.4	★ ☆ ★ ☆
JVR05N271K65	270		175	225	475				9.9	★ ☆ ★ ☆
JVR05N301K65	300		195	250	525				10.5	★ ☆ ★ ☆
JVR05N331K65	330		210	275	575				11.5	★ ☆ ★ ☆
JVR05N361K65	360		230	300	620				13.0	★ ☆ ★ ☆
JVR05N391K65	390		250	320	675				15.0	★ ☆ ★ ☆
JVR05N431K65	430		275	350	745				16.5	★ ☆ ★ ☆
JVR05N471K65	470		300	385	810				17.5	★ ☆ ★ ☆
JVR05N511K65	510		320	418	880				18.5	★ ☆ ★ ☆
JVR05N561K65	560		350	460	940				19.5	★ ☆ ★ ☆
JVR05N621K65	620		385	505	1050				20.5	★ ☆ ★ ☆
JVR05N681K65	680		420	560	1150				21.5	★ ☆ ★ ☆
JVR05N751K65	750		460	615	1290				22.5	★ ☆ ★ ☆

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

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

## Application Notes for UL , CSA and VDE Recognized Components Related Standards

Standard No.	UL 1414	UL1449 (2nd Edition)	CSA	VDE
Title	Across-The-Line Components	Transient Voltage Surge Suppressors	Accessories and parts for electronic products	Varistors for use in electronic equipment
File No.	E154922	E153360	LR101867-1/-8/-15	19006-4790-0002
Symbols				



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.

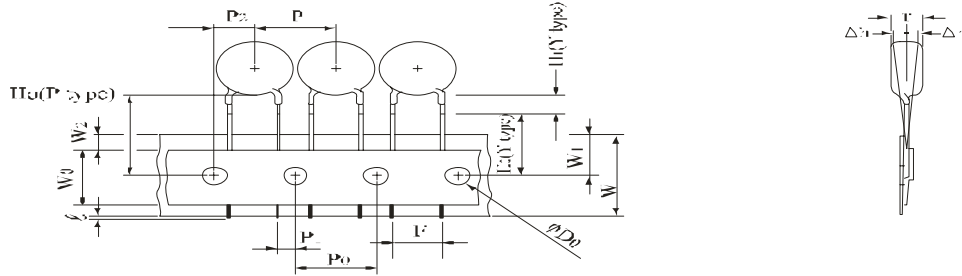
Unit:mm

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

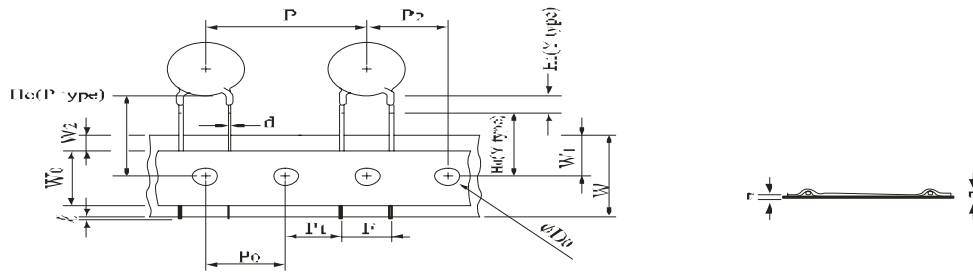


**DIMENSION OF TAPING PRODUCT**

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: JVR05N 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.

