规格承认书

Specification for approval

产品名称：压敏电阻 32D681K

Product Type：varistor 32D681K

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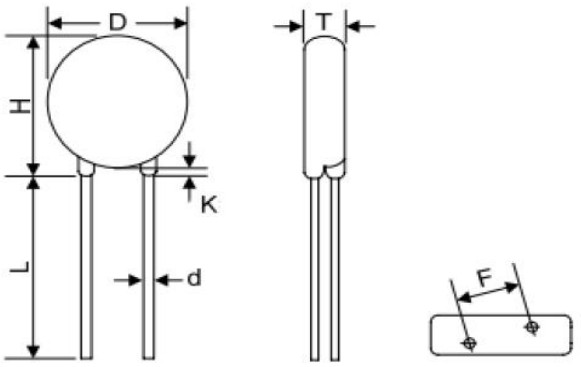
1.OUTLINE

1.1	APPEARANCE	WITHOUT ANY CRACK, MARKING SHOULD BE CLEAR
1.2	DIMENSIONS	DIMENSIONS (mm)



D (max)	36
H (max)	40
K (max)	4.0
T (max)	9.8
d (±0.05)	1.5
F (±2.5)	22.5
L(min)	20
Epoxy Colour: Blue	

2.ELETRICAL PARAMETER

2.1	MAX ALLOWABLE VOLTAGE	AC: 420(V) DC: 560(V)	At 1mA DC
2.2	VARISTOR VOLTAGE	612-748(V)	V0.1mA □ V1mA ■
2.3	RATED WATTAGE	1.2(W)	
2.4	MAX CLAMPING VOLTAGE	IP: 200(A) Vc: 1120(V)	Test Current Waveform 8/20 μ s
2.5	WITHSTANDING SURGE CURRENT	1time: 25000A 2time:20000A	Test Current Waveform 8/20 μ s
2.6	MAX ENERGY	600(J)	Test Current Waveform 10/1000 μ s
2.7	TYPICAL CAPACITANCE	2200(pf)	@1KHz
2.8	LEAKAGE CURRENT	≦30 (μA)	At 80% of Varistor Voltage
2.9	NONLINEAR EXPONENT (α)	≧20	$\alpha = \log \frac{I_1}{I_2} \Big/ \log \frac{V_1}{V_2}$
2.10	TEMPERATURE COEFFICENT OF VARISTOR VOLTAGE	≦ ±0.05%/℃ max	$\frac{Vc85℃-Vc25℃}{Vcat25℃} \times \frac{1}{60} \times 100(\%℃)$
2.11	IMPULSE LIFE	≦ ±10%(V1mA)	Test Current Waveform 8/20 μ s

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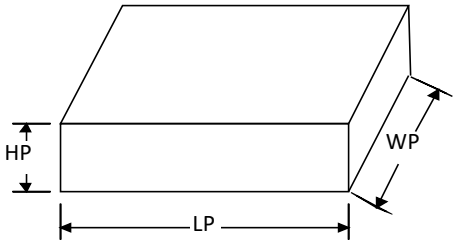
3.PACKING

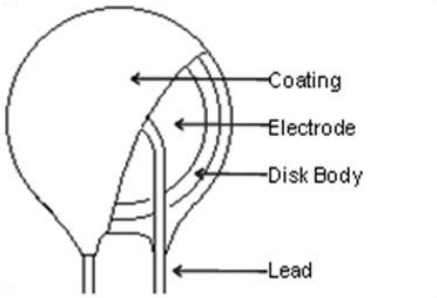
3.1	Quantity	100PCS
3.2	Packing Dimension	

LP	240max
HP	60 max
WP	180max

Unit：mm

4.MATERIAL LIST

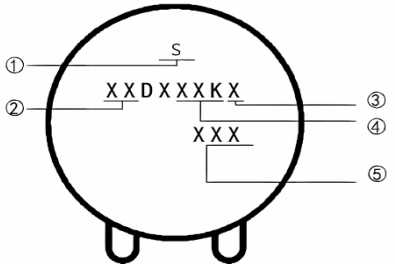
4.1 Drawing



4.2 Material Chart RoHs

Item	Composition	Manufacturer
Coating	Epoxy Resin	Made in China, and in line with the UL 94-V0 testing, meet the environmental requirements
Lead	CU wire	Made in China, meet the environmental requirements
Electrode	Silver/Copper	Made in China, meet the environmental requirements
Disk	Zinc Oxide	Zip Over LLC
Solder	Sn	Made in China, meet the environmental requirements

5. MARKING CODE



① Logo
② Disk Size
③ "J" is High Surge, no "J" is Stangdard Surge
④ Varistor Voltage
⑤ Date Code

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6.MECHENICAL REQUIREMENTS

6.1	Tensile of Terminations	No Outstanding Damage	1.0Kgf; 10Sec.
6.2	Bending of Terminations	No Outstanding Damage	0.5Kgf；90°,3 Times
6.3	Vibration	No Outstanding Damage	Freq:10-55hz;Amp:0.75mm,1Min.
6.4	Solderability	Min. 95% of The Terminal Should Be Covered With Solder Uniformly	Solder Temp:265±5℃ Immersed Time: ≤5Sec.
6.5	Resistance of soldering heat	△ V1mA/V1mA ≦±5%	Solder Temp: 265±5℃ Immersed Time: 10±1Sec.

7.ENVIRONMENTAL REQUIREMENTS

7.1	High Temperature Storage	△V1mA/V1mA ≦±5%	Ambient Temp: 125±2℃ Duration:1000h
7.2	Low Temperature Storage	△V1mA/V1mA ≦±5%	Ambient Temp: -40±2℃ Duration:1000h
7.3	High Humidity Storage/Damp Heat	△V1mA/V1mA ≦±5%	Ambient Temp: 40±2℃ 90-95% R.H. Duration:1000h
7.4	Temperature Cycle/5cycles	△V1mA/V1mA ≦±5%	5 Times

Step	Temperature（℃）	Period（min）
1	-40±3	30 ±3
2	Room Temp	15 ±3
3	125±3	30 ±3
4	Room Temp	15 ±3

7.5	High Temperature Load	△V1mA/V1mA ≦±10%	Ambient temp:85±2℃ Duration:1000h Load: MAX. Allowable Voltage
7.6	High Humidity Load	△V1mA/V1mA ≦±10%	Ambient Temp: 40±2℃ 90-95%R.H.Duration:1000H Load: MAX. Allowable Voltage
7.7	Operating Temperature Range	-40℃ ~ +85℃	-40℃ ~ +85℃
7.8	Storage Temperature Range	-40℃ ~ +125℃	-40℃ ~ +125℃

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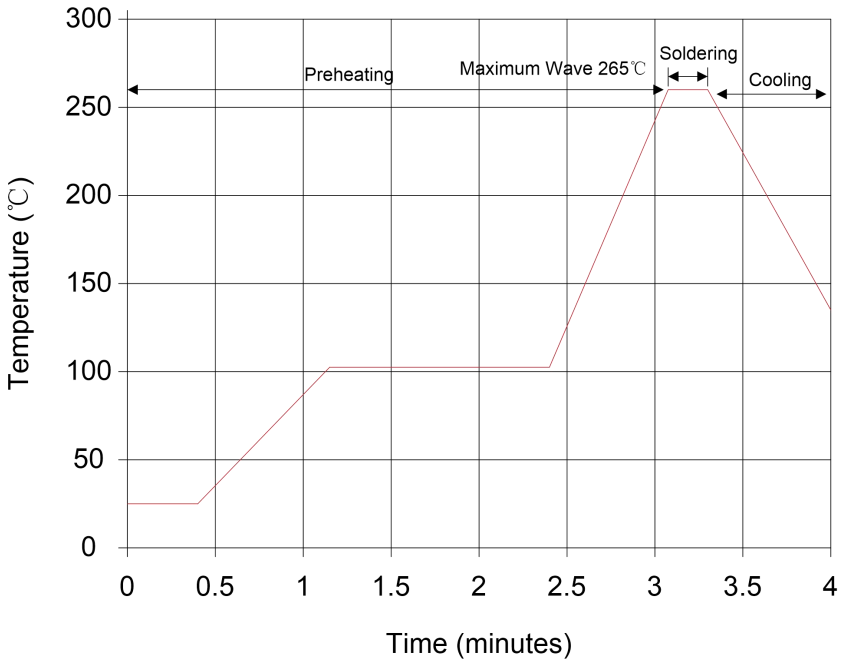
Soldering Recommendation

Wave Lead Free Soldering Recommendation



Item	Conditions
Peak Temperature	265℃
Dipping Time	10 seconds (max.)
Soldering	1 time

Recommendation Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360℃ (max.)
Soldering Time	3 seconds (max.)
Distance from Varistor	2mm (min.)