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**WLR Series**

高温（125℃）、高能组合波、小型化**！**

**Varistors(MOV,TMOV/iTMOV) 压敏电阻器,热保护压敏电阻器**

**- For Overvoltage Protection, SPD 用于过电压保护/防雷**

**■ GENERAL概述**

金属氧化物压敏电阻器(MOV)及其热保护压敏电阻器(TMOV/iTMOV)几乎应用在所有的电器设备上，是最常用的浪涌吸收（过电压保护)器件。其中：热保护压敏电阻器(TMOV/iTMOV)是一种带有热脱扣保护机构的压敏电阻器（iTMOV带有监控器引线）。

**伟林-中昊**WLR系列高性能（高温、高能）、小型化压敏电阻器广泛应用于新一代通信（5G）和电力仪器、仪表及电光源、开关电源等有高温、高能要求，且工作环境空间狭小的场合。

MOV (Metal Oxide Varistors), TMOV/iTMOV (Thermal Protected Varistors, a kind of varistor with thermal trip mechanism, The iTMOV is with monitor lead.) are the most popular over-voltage protection components, nearly applicable to all kinds of electrical equipments.

**WEILIN-ZHONGHAO** WLR series of high performance (high temperature/energy) & downsized varistors is widely applied to the cases such as new generation of the 5G, electrical equipments, meters and SMPS, lightings in which the space is more narrow and it’s operating temperature, energy is more high.

**■ PART NUMBERING 料号**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WLR | - | V | 10D | 271 | K | P | 6 | U | P | B | B | 3.5 | B | - | H |

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⑴ Series 系列：WLR-伟林-中昊压敏电阻器系列

⑵ Type 型号：

V-Standard Type(MOV)标准型；

L-Lightning Type(SPD)防雷型；

T-Thermal Protected Type (TMOV, 2pin) 热保护型；

i-Thermal Protected Type (iTMOV, 3pin/with monitor lead) 热保护型（带有监控器引线）。

⑶ Nominal chip size 标称尺寸：10D-Φ10(mm)；40S-40\*40(mm)。

⑷ Varistor Voltage(UN)压敏电压：271-270(v)；471-470(v)。

⑸ Tolerance允差：K-±10%；L-±15%；M-±20%。

⑹ Energy能量：P-Professional专业型；S-Standard标准型；H-High高能型；T-Top超能型。

⑺ Wire diameter引线直径：6-0.6(mm)；8-0.8(mm)。

⑻ Shape of lead引线形状：U=内弯；S=直线；A=轴弯；O=外弯；T=侧插；C=贴片。

⑼ Materials of lead 引线材料：P-镀锡钢线；U-镀锡铜线；W-导线。

⑽ Distance of lead 引线间距：B-5.0（mm）；C-7.5（mm）；D-10（mm）。

⑾ Packing Type包装方式：B -散装；F-编带盒装；R-编带卷装。

⑿ Length of lead引线长度：3.5-3.5（mm）。

⒀ Coating color包封料颜色：B-blue 蓝色；G-green 绿色；Y-yellow 黄色。

⒁ Coating materials & Rated working temperature包封材料及其额定工作温度：

S-125℃ Silicon硅树脂；

H-125℃ Epoxy环氧树脂；

L-85℃ Epoxy环氧树脂；

R-125℃ Heat shrinkable sleeve热缩套管。

**■ SPECIFICATION S TABLE规格表**

**★ MOV 07~32D** (Overvoltage Protection Type)

**压敏电阻器（过电压保护型）**

APPROVED BY

UL1449,VDE,TUV/IEC60950-1:2018



Heat shrinkable sleeve热缩套管 Epoxy环氧树脂 **/** Silicone硅树脂

**☆ MOV 07D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Max Peak Current & Combined Wave峰值电流**IP** (A)及组合波(1.2/50μs+8/20μs) | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能组合波型（H） |
| 1hit | 40hits | 1hit | 40hits\*（2kV） |
| 1 | V07D820K | 82 | 135 | 5.5  | 7.0  | 1,200 | 300 | 1,750 | 1,000  | 0.25 | 20 | 600 |
| 2 | V07D101K | 100 | 165 | 6.5  | 8.5  | 500 |
| 3 | V07D121K | 120 | 200 | 7.8  | 10.0  | 420 |
| 4 | V07D151K | 150 | 250 | 9.7  | 13.0  | 330 |
| 5 | V07D181K | 180 | 300 | 11.7  | 15.0  | 280 |
| 6 | V07D201K | 200 | 330 | 13.0  | 17.5  | 250 |
| 7 | V07D221K | 220 | 360 | 14.0  | 19.0  | 230 |
| 8 | V07D241K | 240 | 395 | 15.0  | 21.0  | 210 |
| 9 | V07D271K | 270 | 455 | 18.0  | 24.0  | 185 |
| 10 | V07D301K | 300 | 505 | 21.0  | 26.0  | 165 |
| 11 | V07D331K | 330 | 550 | 23.0  | 28.0  | 150 |
| 12 | V07D361K | 360 | 595 | 25.0  | 32.0  | 140 |
| 13 | V07D391K | 390 | 650 | 25.0  | 35.0  | 130 |
| 14 | V07D431K | 430 | 710 | 28.0  | 40.0  | 115 |
| 15 | V07D471K | 470 | 775 | 30.0  | 42.0  | 105 |
| 16 | V07D511K | 510 | 845 | 33.0  | 45.0  | 100 |
| 17 | V07D561K | 560 | 920 | 33.0  | 45.5  | 90 |
| 18 | V07D621K | 620 | 1,025 | 35.0  | 50.0  | 80 |
| 19 | V07D681K | 680 | 1,120 | 35.0  | 50.5  | 75 |
| 20 | V07D751K | 750 | 1,240 | 38.0  | 51.0  | 65 |
| 21 | V07D821K | 820 | 1,355 | 40.0 | 52.0 | 60 |
| 工作环境温度：-40℃ ~ +125℃ |

\***Remark备注**：

Combined Wave组合波(IEC60950-1:2018): 2kV/1kA (0°/90°/180°/270°,+/-5hits,Total:40hits,Interval:60s)

**☆ MOV 10D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Max Peak Current & Combined Wave峰值电流**IP** (A)及组合波(1.2/50μs+8/20μs) | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能组合波型（H） |
| 1hit | 40hits | 1hit | 40hits\*（4kV） |
| 1 | V10D180L | 18 | 38 | 2.1  | 2.6  | 500 | / | 1,000 | 2,000 | 0.05 | 20 | 5,600 |
| 2 | V10D220K | 22 | 43 | 2.5  | 3.2  | 4,500 |
| 3 | V10D270K | 27 | 53 | 3.0  | 3.9  | 3,700 |
| 4 | V10D330K | 33 | 65 | 4.0  | 4.8  | 3,000 |
| 5 | V10D390K | 39 | 77 | 4.6  | 5.6  | 2,600 |
| 6 | V10D470K | 47 | 93 | 5.5  | 6.8  | 2,100 |
| 7 | V10D560K | 56 | 110 | 7.0  | 8.1  | 1,800 |
| 8 | V10D680K | 68 | 135 | 8.2  | 9.8  | 1,500 |
| 9 | V10D820K | 82 | 135 | 12.0  | 14.0  | 1,200 |
| 10 | V10D101K | 100 | 165 | 15.0  | 17.0  | 2,500 | 500 | 3,500 | 2,000 | 0.4 | 20 | 1,000 |
| 11 | V10D121K | 120 | 200 | 18.0  | 20.0  | 830 |
| 12 | V10D151K | 150 | 250 | 22.0  | 25.0  | 670 |
| 13 | V10D181K | 180 | 300 | 27.0  | 27.0  | 560 |
| 14 | V10D201K | 200 | 330 | 30.0  | 35.0  | 500 |
| 15 | V10D221K | 220 | 360 | 32.0  | 39.0  | 450 |
| 16 | V10D241K | 240 | 395 | 35.0  | 42.0  | 420 |
| 17 | V10D271K | 270 | 455 | 40.0  | 49.0  | 370 |
| 18 | V10D301K | 300 | 505 | 40.0  | 53.0  | 330 |
| 19 | V10D331K | 330 | 550 | 43.0  | 58.0  | 300 |
| 20 | V10D361K | 360 | 595 | 47.0  | 65.0  | 280 |
| 21 | V10D391K | 390 | 650 | 60.0  | 70.0  | 260 |
| 22 | V10D431K | 430 | 710 | 65.0  | 80.0  | 230 |
| 23 | V10D471K | 470 | 775 | 70.0  | 85.0  | 210 |
| 24 | V10D511K | 510 | 845 | 70.0  | 92.0  | 200 |
| 25 | V10D561K | 560 | 920 | 70.0  | 92.0  | 180 |
| 26 | V10D621K | 620 | 1,025 | 70.0  | 92.0  | 160 |
| 27 | V10D681K | 680 | 1,120 | 70.0  | 92.0  | 150 |
| 28 | V10D751K | 750 | 1,240 | 75.0  | 100.0  | 140 |
| 29 | V10D781K | 780 | 1,290 | 80.0  | 104.0  | 130 |
| 30 | V10D821K | 820 | 1,355 | 85.0  | 110.0  | 120 |
| 31 | V10D911K | 910 | 1,500 | 93.0  | 115.0  | 110 |
| 32 | V10D102K | 1,000 | 1,650 | 102.0  | 120.0  | 100 |
| 33 | V10D112K | 1,100 | 1,815 | 115.0  | 130.0  | 90 |
| 工作环境温度：-40℃ ~ +125℃ |

\***Remark备注**：

Combined Wave组合波(IEC60950-1:2018): 4kV/2kA (0°/90°/180°/270°,+/-5hits,Total:40hits,Interval:60s)

**☆ MOV 14D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Peak Current & Combined Wave峰值电流**IP** (A)及组合波(1.2/50μs+8/20μs) | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能组合波型（H） |
| 1hit | 40hits | 1hit | 40hits\*（6kV） |
| 1 | V14D180L | 18 | 38 | 4.0  | 5.2  | 1,000 | / | 2,000 | 3,000 | 0.1 | 20 | 11,100 |
| 2 | V14D220K | 22 | 43 | 5.0  | 6.3  | 9,100 |
| 3 | V14D270K | 27 | 53 | 6.0  | 7.8  | 7,400 |
| 4 | V14D330K | 33 | 65 | 7.5  | 9.5  | 6,100 |
| 5 | V14D390K | 39 | 77 | 8.6  | 11.0  | 5,100 |
| 6 | V14D470K | 47 | 93 | 10.0  | 14.0  | 4,300 |
| 7 | V14D560K | 56 | 110 | 11.0  | 16.0  | 3,600 |
| 8 | V14D680K | 68 | 135 | 14.0  | 20.0  | 2,900 |
| 9 | V14D820K | 82 | 135 | 22.0  | 28.0  | 4,500 | 1,500 | 6,000 | 3,000 | 0.6 | 20 | 2,400 |
| 10 | V14D101K | 100 | 165 | 28.0  | 35.0  | 2,000 |
| 11 | V14D121K | 120 | 200 | 32.0  | 42.0  | 1,700 |
| 12 | V14D151K | 150 | 250 | 40.0  | 53.0  | 1,300 |
| 13 | V14D181K | 180 | 300 | 52.0  | 57.0  | 1,100 |
| 14 | V14D201K | 200 | 330 | 57.0  | 70.0  | 1,000 |
| 15 | V14D221K | 220 | 360 | 60.0  | 78.0  | 900 |
| 16 | V14D241K | 240 | 395 | 63.0  | 84.0  | 830 |
| 17 | V14D271K | 270 | 455 | 70.0  | 99.0  | 740 |
| 18 | V14D301K | 300 | 505 | 78.0  | 105.0  | 670 |
| 19 | V14D331K | 330 | 550 | 85.0  | 115.0  | 610 |
| 20 | V14D361K | 360 | 595 | 93.0  | 130.0  | 560 |
| 21 | V14D391K | 390 | 650 | 100.0  | 140.0  | 510 |
| 22 | V14D431K | 430 | 710 | 115.0  | 155.0  | 460 |
| 23 | V14D471K | 470 | 775 | 125.0  | 175.0  | 430 |
| 24 | V14D511K | 510 | 845 | 125.0  | 190.0  | 390 |
| 25 | V14D561K | 560 | 920 | 125.0  | 190.0  | 360 |
| 26 | V14D621K | 620 | 1,025 | 125.0  | 190.0  | 320 |
| 27 | V14D681K | 680 | 1,120 | 130.0  | 190.0  | 290 |
| 28 | V14D751K | 750 | 1,240 | 143.0  | 210.0  | 270 |
| 29 | V14D781K | 780 | 1,290 | 150.0  | 220.0  | 260 |
| 30 | V14D821K | 820 | 1,355 | 157.0  | 235.0  | 230 |
| 31 | V14D911K | 910 | 1,500 | 175.0  | 255.0 | 220 |
| 32 | V14D102K | 1,000 | 1,650 | 190.0  | 280.0 | 200 |
| 33 | V14D112K | 1,100 | 1,815 | 213.0  | 310.0 | 180 |
| 34 | V14D152K | 1,500 | 2,475 | 305.0  | 420.0 | 130 |
| 35 | V14D182K | 1,800 | 2,970 | 354.0  | 510.0 | 110 |
| 工作环境温度：-40℃ ~ +125℃ |

\***Remark备注**：

Combined Wave组合波(IEC60950-1:2018): 6kV/3kA (0°/90°/180°/270°,+/-5hits,Total:40hits,Interval:60s)

**☆ MOV 20D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Peak Current & Combined Wave峰值电流**IP** (A)及组合波(1.2/50μs+8/20μs) | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能组合波型（H） |
| 1hit | 40hits | 1hit | 40hits\*（8kV） |
| 1 | V20D180L | 18 | 38 | 11 | 13 | 2,000 | / | 3,000 | 4,000 | 0.2 | 20 | 19,000 |
| 2 | V20D220K | 22 | 43 | 14 | 16 | 15,000 |
| 3 | V20D270K | 27 | 53 | 18 | 19 | 12,000 |
| 4 | V20D330K | 33 | 65 | 23 | 24 | 10,000 |
| 5 | V20D390K | 39 | 77 | 26 | 28 | 8,500 |
| 6 | V20D470K | 47 | 93 | 33 | 34 | 7,400 |
| 7 | V20D560K | 56 | 110 | 41 | 41 | 6,500 |
| 8 | V20D680K | 68 | 135 | 46 | 49 | 5,800 |
| 9 | V20D820K | 82 | 135 | 48 | 56 | 6,500 | 2,000 | 10,000 | 4,000 | 1.0 | 20 | 4,900 |
| 10 | V20D101K | 100 | 165 | 51 | 70 | 4,000 |
| 11 | V20D121K | 120 | 200 | 55 | 85 | 3,300 |
| 12 | V20D151K | 150 | 250 | 70 | 106 | 2,700 |
| 13 | V20D181K | 180 | 300 | 84 | 130 | 2,200 |
| 14 | V20D201K | 200 | 330 | 95 | 140 | 2,000 |
| 15 | V20D221K | 220 | 360 | 100 | 155 | 1,800 |
| 16 | V20D241K | 240 | 395 | 108 | 168 | 1,650 |
| 17 | V20D271K | 270 | 455 | 127 | 190 | 1,500 |
| 18 | V20D301K | 300 | 505 | 136 | 210 | 1,300 |
| 19 | V20D331K | 330 | 550 | 150 | 228 | 1,200 |
| 20 | V20D361K | 360 | 595 | 163 | 255 | 1,100 |
| 21 | V20D391K | 390 | 650 | 180 | 275 | 1,000 |
| 22 | V20D431K | 430 | 710 | 190 | 303 | 930 |
| 23 | V20D471K | 470 | 775 | 220 | 350 | 850 |
| 24 | V20D511K | 510 | 845 | 220 | 382 | 780 |
| 25 | V20D561K | 560 | 920 | 220 | 382 | 715 |
| 26 | V20D621K | 620 | 1,025 | 220 | 382 | 650 |
| 27 | V20D681K | 680 | 1,120 | 230 | 382 | 600 |
| 28 | V20D751K | 750 | 1,240 | 255 | 420 | 530 |
| 29 | V20D781K | 780 | 1,290 | 270 | 440 | 510 |
| 30 | V20D821K | 820 | 1,355 | 282 | 460 | 500 |
| 31 | V20D911K | 910 | 1,500 | 310 | 510 | 440 |
| 32 | V20D102K | 1,000 | 1,650 | 342 | 565 | 400 |
| 33 | V20D112K | 1,100 | 1,815 | 383 | 620 | 360 |
| 34 | V20D152K | 1,500 | 2,475 | 510 | 780 | 260 |
| 35 | V20D182K | 1,800 | 2,970 | 620 | 1020 | 220 |
| 工作环境温度：-40℃ ~ +125℃ |

\***Remark备注**：

Combined Wave组合波(IEC60950-1:2018): 8kV/4kA (0°/90°/180°/270°,+/-5hits,Total:40hits,Interval:60s)

**☆ MOV 25D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Peak Current & Combined Wave峰值电流**IP** (A)及组合波(1.2/50μs+8/20μs) | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能组合波型（H） |
| 1hit | 40hits | 1hit | 40hits\*（10kV） |
| 1 | V25D201K | 200 | 330 | 160  | 235 | 15,000 | 4,000 | 20,000 | 5,000 | 1.1 | 20 | 3,200 |
| 2 | V25D221K | 220 | 360 | 170  | 260 | 2,900 |
| 3 | V25D241K | 240 | 395 | 180  | 280 | 2,650 |
| 4 | V25D271K | 270 | 455 | 220  | 320 | 2,400 |
| 5 | V25D301K | 300 | 505 | 230  | 350 | 2,100 |
| 6 | V25D331K | 330 | 550 | 250  | 380 | 1,900 |
| 7 | V25D361K | 360 | 595 | 270  | 425 | 1,750 |
| 8 | V25D391K | 390 | 650 | 300  | 460 | 1,600 |
| 9 | V25D431K | 430 | 710 | 320  | 505 | 1,500 |
| 10 | V25D471K | 470 | 775 | 350  | 585 | 1,400 |
| 11 | V25D511K | 510 | 845 | 370  | 640 | 1,250 |
| 12 | V25D561K | 560 | 920 | 370  | 640 | 1,150 |
| 13 | V25D621K | 620 | 1,025 | 370  | 640 | 1,050 |
| 14 | V25D681K | 680 | 1,120 | 370  | 640 | 950 |
| 15 | V25D751K | 750 | 1,240 | 425  | 700 | 850 |
| 16 | V25D781K | 780 | 1,290 | 450  | 735 | 800 |
| 17 | V25D821K | 820 | 1,355 | 470  | 770 | 750 |
| 18 | V25D911K | 910 | 1,500 | 520  | 855 | 700 |
| 19 | V25D102K | 1,000 | 1,650 | 570  | 945 | 650 |
| 20 | V25D112K | 1,100 | 1,815 | 640  | 1040 | 600 |
| 21 | V25D122K | 1,200 | 1,925 | 730  | 1120 | 550 |
| 22 | V25D152K | 1,500 | 2,475 | 915  | 1500 | 500 |
| 23 | V25D182K | 1,800 | 2,970 | 1035  | 1700 | 400 |
| 工作环境温度：-40℃ ~ +125℃ |

\***Remark备注**：

Combined Wave组合波(IEC60950-1:2018): 10kV/5kA (0°/90°/180°/270°,+/-5hits,Total:40hits,Interval:60s)

**☆ MOV 32D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Peak Current & Combined Wave峰值电流**IP** (A)及组合波(1.2/50μs+8/20μs) | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能组合波型（H） |
| 1hit | 40hits | 1hit | 40hits\*（10kV） |
| 1 | V32D201K | 200 | 330 | 200  | 290 | 20,000 | 5,000 | 25,000 | 5,000 | 1.2 | 20 | 5,200 |
| 2 | V32D221K | 220 | 360 | 210  | 320 | 5,150 |
| 3 | V32D241K | 240 | 395 | 215  | 335 | 5,100 |
| 4 | V32D271K | 270 | 455 | 245  | 355 | 4,800 |
| 5 | V32D301K | 300 | 505 | 250  | 380 | 4,550 |
| 6 | V32D331K | 330 | 550 | 265  | 400 | 4,300 |
| 7 | V32D361K | 360 | 595 | 290  | 455 | 3,900 |
| 8 | V32D391K | 390 | 650 | 320  | 490 | 3,200 |
| 9 | V32D431K | 430 | 710 | 355  | 560 | 3,100 |
| 10 | V32D471K | 470 | 775 | 340  | 565 | 2,800 |
| 11 | V32D511K | 510 | 845 | 330  | 565 | 2,700 |
| 12 | V32D561K | 560 | 920 | 365  | 630 | 2,550 |
| 13 | V32D621K | 620 | 1,025 | 445  | 770 | 2,400 |
| 14 | V32D681K | 680 | 1,120 | 485  | 840 | 2,200 |
| 15 | V32D751K | 750 | 1,240 | 535  | 880 | 2,000 |
| 16 | V32D781K | 780 | 1,290 | 565  | 924 | 1,900 |
| 17 | V32D821K | 820 | 1,355 | 580  | 952 | 1,800 |
| 18 | V32D911K | 910 | 1,500 | 595  | 980 | 1,300 |
| 19 | V32D102K | 1,000 | 1,650 | 615  | 1020 | 1,100 |
| 20 | V32D112K | 1,100 | 1,815 | 650  | 1060 | 1,000 |
| 21 | V32D122K | 1,200 | 1,925 | 750  | 1150 | 920 |
| 22 | V32D152K | 1,500 | 2,475 | 975  | 1,600 | 800 |
| 23 | V32D182K | 1,800 | 2,970 | 1250  | 1,900 | 700 |
| 工作环境温度：-40℃ ~ +125℃ |

\***Remark备注**：

Combined Wave组合波(IEC60950-1:2018): 10kV/5kA (0°/90°/180°/270°,+/-5hits,Total:40hits,Interval:60s)

**★ SPD** ( Lightning Protection Type )

**压敏电阻器（防雷型）**

**☆ SPD 34S**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V) 8/20μs | Max. Energy 能量(J)10/1000μs  | Pulse Current冲击电流(A)8/20μs | Rated Power最大额定功率(W) | MaxLeakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF)1KHz |
| 标准型(S) | 高能型(H) | 标准型（S） | 高能型（H） | 超能型（H） |
| **I**n(15hits) | **I**max(1hit) | **I**n(15hits) | **I**max(1hit) | **I**n(15hits) | **I**max(1hit) |
| 1 | L34S201 | 200 | 330 | 273 | 370 | 15,000 | 30,000 | 20,000 | 40,000 | 25,000 | 50,000 | 1.4 | 20 | 8,400 |
| 2 | L34S221 | 220 | 360 | 310 | 400 | 8,200 |
| 3 | L34S241 | 240 | 395 | 328 | 430 | 8,000 |
| 4 | L34S271 | 270 | 455 | 350 | 470 | 7,600 |
| 5 | L34S301 | 300 | 505 | 389 | 510 | 7,150 |
| 6 | L34S331 | 330 | 550 | 418 | 550 | 6,700 |
| 7 | L34S361 | 360 | 595 | 440 | 570 | 6,200 |
| 8 | L34S391 | 390 | 650 | 451 | 590 | 5,100 |
| 9 | L34S431 | 430 | 710 | 530 | 660 | 4,900 |
| 10 | L34S471 | 470 | 775 | 630 | 720 | 4,300 |
| 11 | L34S511 | 510 | 845 | 662 | 770 | 4,200 |
| 12 | L34S561 | 560 | 920 | 700 | 810 | 4,000 |
| 13 | L34S621 | 620 | 1,025 | 757 | 860 | 3,800 |
| 14 | L34S681 | 680 | 1,120 | 798 | 900 | 3,500 |
| 15 | L34S751 | 750 | 1,240 | 774 | 940 | 3,200 |
| 16 | L34S781 | 780 | 1,290 | 814 | 980 | 3,000 |
| 17 | L34S821 | 820 | 1,355 | 872 | 1,080 | 2,900 |
| 18 | L34S911 | 910 | 1,500 | 946 | 1,150 | 2,200 |
| 19 | L34S102 | 1,000 | 1,650 | 1,039 | 1,260 | 1,800 |
| 20 | L34S112 | 1,100 | 1,815 | 1,188 | 1,380 | 1,600 |
| 21 | L34S122 | 1,200 | 1,925 | 1,163 | 1,460 | 1,500 |
| 22 | L34S152 | 1,500 | 2,475 | 1,271 | 1,550 | 1,300 |
| 23 | L34S182 | 1,800 | 2,970 | 1,395 | 1,700 | 1,150 |
| 工作环境温度：-40℃ ~ +125℃ |

**★ TMOV/ iTMOV 14~22D** (Overvoltage Protection Type)

**热保护压敏电阻器（过电压保护型）**





**☆ TMOV/iTMOV 14D**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号TMOV(2Pin) | Part No.产品编号iTMOV(3Pin) | Varistor Voltage 压敏电压**U**N (V) 1mA | Max Clamping Voltage最大限制电压UC (V)8/20μs, 50A | Max. Energy 最大能量(J)10/1000μs  | Max.Peak Current最大峰值电流**I**p(A)8/20μs  | Rated Power额定功率(W) | Max Leakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF) 1KHz |
| 1hit | 2hits |
| 1 | T14D181K | i14D181K | 180 | 300 | 58.8 | 6,000 | 4,500 | 0.6 | 20 | 1,100 |
| 2 | T14D201K | i14D201K | 200 | 330 | 75.2 | 6,000 | 4,500 | 0.6 | 20 | 1,000 |
| 3 | T14D221K | i14D221K | 220 | 360 | 79.8 | 6,000 | 4,500 | 0.6 | 20 | 900 |
| 4 | T14D241K | i14D241K | 240 | 395 | 82.6 | 6,000 | 4,500 | 0.6 | 20 | 830 |
| 5 | T14D271K | i14D271K | 270 | 455 | 84.0 | 6,000 | 4,500 | 0.6 | 20 | 740 |
| 6 | T14D301K | i14D301K | 300 | 505 | 103 | 6,000 | 4,500 | 0.6 | 20 | 670 |
| 7 | T14D331K | i14D331K | 330 | 550 | 112 | 6,000 | 4,500 | 0.6 | 20 | 610 |
| 8 | T14D361K | i14D361K | 360 | 595 | 123 | 6,000 | 4,500 | 0.6 | 20 | 560 |
| 9 | T14D391K | i14D391K | 390 | 650 | 135 | 6,000 | 4,500 | 0.6 | 20 | 510 |
| 10 | T14D431K | i14D431K | 430 | 710 | 145 | 6,000 | 4,500 | 0.6 | 20 | 460 |
| 11 | T14D471K | i14D471K | 470 | 775 | 147 | 6,000 | 4,500 | 0.6 | 20 | 430 |
| 12 | T14D511K | i14D511K | 510 | 845 | 148 | 6,000 | 4,500 | 0.6 | 20 | 390 |
| 13 | T14D561K | i14D561K | 560 | 920 | 150 | 6,000 | 4,500 | 0.6 | 20 | 360 |
| 14 | T14D621K | i14D621K | 620 | 1,025 | 155 | 6,000 | 4,500 | 0.6 | 20 | 320 |
| 15 | T14D681K | i14D681K | 680 | 1,120 | 160 | 6,000 | 4,500 | 0.6 | 20 | 290 |
| 16 | T14D751K | i14D751K | 750 | 1,240 | 180 | 6,000 | 4,500 | 0.6 | 20 | 270 |
| 17 | T14D781K | i14D781K | 780 | 1,290 | 190 | 6,000 | 4,500 | 0.6 | 20 | 260 |
| 18 | T14D821K | i14D821K | 820 | 1,355 | 203 | 6,000 | 4,500 | 0.6 | 20 | 230 |
| 19 | T14D911K | i14D911K | 910 | 1,500 | 208 | 6,000 | 4,500 | 0.6 | 20 | 220 |
| 20 | T14D102K | i14D102K | 1,000 | 1,650 | 212 | 6,000 | 4,500 | 0.6 | 20 | 200 |
| 工作环境温度：-40℃~ +85℃ |
|  |

**☆ TMOV/iTMOV 20D**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.序号 | Part No.产品编号 | Varistor Voltage 压敏电压UN (V) 1mA | Max Clamping Voltage最大限制电压UC (V)8/20μs, 100A | Max. Energy 能量(J)10/1000μs  | Max.Peak Current最大峰值电流**I**p(A)8/20μs  | Rated Power最大额定功率(W) | Max Leakage Current最大漏电流(μA) | Max Capacitance最大电容量(PF) 1KHz |
| TMOV(2Pin) | iTMOV(3Pin) | 1hit | 2hits |
| 1 | T20D181 | i20D181 | 180 | 300 | 84.0 | 10,000 | 6,500 | 1.0 | 20 | 2,200 |
| 2 | T20D201 | i20D201 | 200 | 330 | 98.0 | 10,000 | 6,500 | 1.0 | 20 | 2,000 |
| 3 | T20D221 | i20D221 | 220 | 360 | 105 | 10,000 | 6,500 | 1.0 | 20 | 1,800 |
| 4 | T20D241 | i20D241 | 240 | 395 | 112 | 10,000 | 6,500 | 1.0 | 20 | 1,650 |
| 5 | T20D271 | i20D271 | 270 | 455 | 126 | 10,000 | 6,500 | 1.0 | 20 | 1,500 |
| 6 | T20D301 | i20D301 | 300 | 505 | 133 | 10,000 | 6,500 | 1.0 | 20 | 1,300 |
| 7 | T20D331 | i20D331 | 330 | 550 | 140 | 10,000 | 6,500 | 1.0 | 20 | 1,200 |
| 8 | T20D361 | i20D361 | 360 | 595 | 168 | 10,000 | 6,500 | 1.0 | 20 | 1,100 |
| 9 | T20D391 | i20D391 | 390 | 650 | 182 | 10,000 | 6,500 | 1.0 | 20 | 1,000 |
| 10 | T20D431 | i20D431 | 430 | 710 | 196 | 10,000 | 6,500 | 1.0 | 20 | 930 |
| 11 | T20D471 | i20D471 | 470 | 775 | 202 | 10,000 | 6,500 | 1.0 | 20 | 850 |
| 12 | T20D511 | i20D511 | 510 | 845 | 207 | 10,000 | 6,500 | 1.0 | 20 | 780 |
| 13 | T20D561 | i20D561 | 560 | 920 | 210 | 10,000 | 6,500 | 1.0 | 20 | 715 |
| 14 | T20D621 | i20D621 | 620 | 1,025 | 224 | 10,000 | 6,500 | 1.0 | 20 | 650 |
| 15 | T20D681 | i20D681 | 680 | 1,120 | 224 | 10,000 | 6,500 | 1.0 | 20 | 600 |
| 16 | T20D751 | i20D751 | 750 | 1,240 | 230 | 10,000 | 6,500 | 1.0 | 20 | 530 |
| 17 | T20D781 | i20D781 | 780 | 1,290 | 240 | 10,000 | 6,500 | 1.0 | 20 | 510 |
| 18 | T20D821 | i20D821 | 820 | 1,355 | 250 | 10,000 | 6,500 | 1.0 | 20 | 500 |
| 19 | T20D911 | i20D911 | 910 | 1,500 | 260 | 10,000 | 6,500 | 1.0 | 20 | 440 |
| 20 | T20D102 | i20D102 | 1,000 | 1,650 | 270 | 10,000 | 6,500 | 1.0 | 20 | 400 |
| 工作环境温度：-40℃~ +85℃ |
|  |