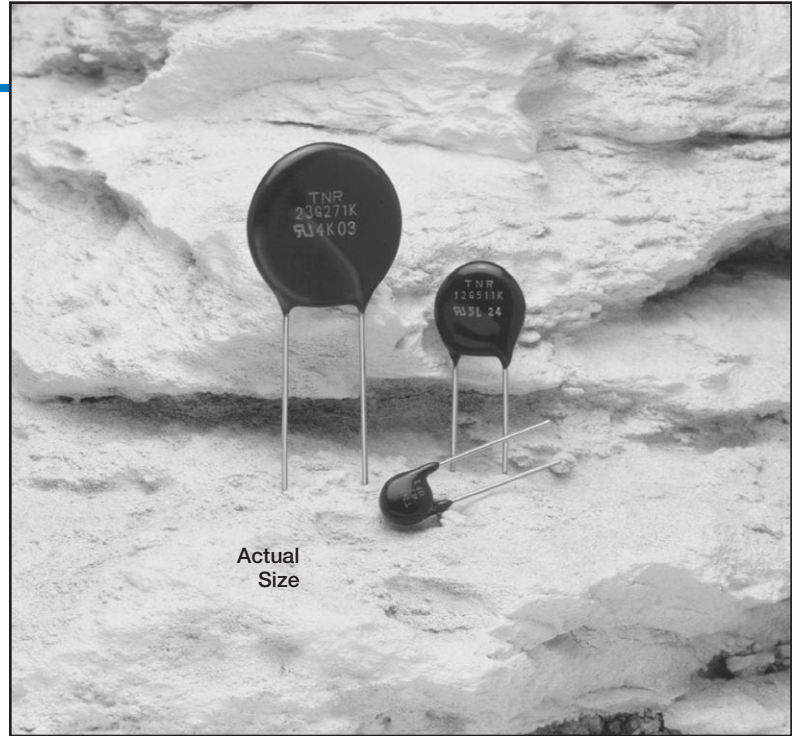


- **Metal Oxide Varistor**
- **General Purpose**
- **UL 1414 and 1449 Approved**
- **CSA 097864 Approved**
- **+85°C Maximum Temperature**



The G series is the standard metal oxide varistor series from UCC/NCC. These MOVs are available in a wide variety of voltages and sizes, which will make them ideal in most applications where a surge protector is needed. The G series is also ideal because of the variety of UL and CSA approvals. The varistors with a 5mm or 7.5mm lead spacing are available with ammo pack taping.

Refer to the Mini-Glossary at the end of the metal oxide varistors section for additional technical information and specifications.

Summary of Specifications

- Radial lead terminals.
- Operating temperature range: -40°C to $+85^{\circ}\text{C}$.
- Maximum voltage range: 8 to 625VAC or 12 to 825VDC.
- Standard varistor voltage tolerance: $\pm 10\%$
- Maximum energy: 0.4 to 230J depending on case size.
- Maximum surge current: 100 to 6,500A.
- Maximum case size (D×H×T): 8.0×11.0×5.0mm to 25.0×28.0×9.5mm.

G Series

G Specifications

| Item | Characteristics |
|-----------------------------|---|
| Operating Temperature Range | -40 to +85°C |
| Storage Temperature Range | -50 to +125°C |
| Maximum Voltage Range | 8 to 625VAC or 12 to 825VDC |
| Varistor Voltage | 22 to 470V at 0.1mA DC for \varnothing 7mm; 15 to 1,000V at 1mA DC for \varnothing 9mm to \varnothing 23mm. |
| Varistor Voltage Tolerance | $\pm 10\%$ (K) |
| Maximum Energy | 0.4 to 230 Joules at 2ms |
| Maximum Surge Current | 100 to 6,500A at 8/20 μ s |
| Maximum Case Size (D×H×T) | 8.0×11.0×5.0mm to 25.0×28.0×9.5mm |
| Agency Approvals | UL1414 and 1449; CSA 097864 |

Diagram of Dimensions

Metal Oxide Varistor/Radial Lead Unit: mm and inches

Dimensions (mm)

| Nom. Dia. | Varistor Voltage | \varnothing D max. | H max. | T max. | L min. | \varnothing d ± 0.05 | F ± 1.0 |
|-----------|------------------|----------------------|--------|--------|--------|----------------------------|-------------|
| 7mm | ≤ 270 | 8 | 11 | 5 | 25 | 0.6 | 5 |
| | ≥ 330 | 8 | 11 | 7 | 25 | 0.6 | 5 |
| 9mm | ≤ 270 | 10 | 13 | 5 | 25 | 0.6 | 5 |
| | ≥ 330 | 10 | 13 | 7 | 25 | 0.6 | 5 |
| 12mm | ≤ 270 | 13.5 | 16.5 | 5 | 25 | 0.8 | 7.5 |
| | 330-680 | 14 | 17 | 7.5 | 25 | 0.8 | 7.5 |
| | ≥ 820 | 14 | 17 | 9 | 25 | 0.8 | 7.5 |
| 15mm | ≤ 270 | 16 | 19 | 5 | 25 | 0.8 | 7.5 |
| | 330-680 | 17 | 20 | 7.5 | 25 | 0.8 | 7.5 |
| | ≥ 820 | 17 | 20 | 9 | 25 | 0.8 | 7.5 |
| 23mm | ≤ 270 | 24 | 27 | 5 | 25 | 0.8 | 10 |
| | 330-680 | 25 | 28 | 8 | 25 | 0.8 | 10 |
| | ≥ 820 | 25 | 28 | 9.5 | 25 | 0.8 | 10 |

Dimensions (inches)

| Nom. Dia. | Varistor Voltage | \varnothing D max. | H max. | T max. | L min. | \varnothing d ± 0.002 | F ± 0.039 |
|-----------|------------------|----------------------|--------|--------|--------|-----------------------------|---------------|
| 7mm | ≤ 270 | 0.315 | 0.433 | 0.197 | 0.984 | 0.024 | 0.197 |
| | ≥ 330 | 0.315 | 0.433 | 0.276 | 0.984 | 0.024 | 0.197 |
| 9mm | ≤ 270 | 0.394 | 0.512 | 0.197 | 0.984 | 0.024 | 0.197 |
| | ≥ 330 | 0.394 | 0.512 | 0.276 | 0.984 | 0.024 | 0.197 |
| 12mm | ≤ 270 | 0.531 | 0.650 | 0.197 | 0.984 | 0.031 | 0.295 |
| | 330-680 | 0.551 | 0.669 | 0.295 | 0.984 | 0.031 | 0.295 |
| | ≥ 820 | 0.551 | 0.669 | 0.354 | 0.984 | 0.031 | 0.295 |
| 15mm | ≤ 270 | 0.630 | 0.748 | 0.197 | 0.984 | 0.031 | 0.295 |
| | 330-680 | 0.669 | 0.787 | 0.295 | 0.984 | 0.031 | 0.295 |
| | ≥ 820 | 0.669 | 0.787 | 0.354 | 0.984 | 0.031 | 0.295 |
| 23mm | ≤ 270 | 0.945 | 1.063 | 0.197 | 0.984 | 0.031 | 0.394 |
| | 330-680 | 0.984 | 1.102 | 0.315 | 0.984 | 0.031 | 0.394 |
| | ≥ 820 | 0.984 | 1.102 | 0.374 | 0.984 | 0.031 | 0.394 |

Part Numbering System for G Series When ordering, always specify complete catalog number for G Series.

| | | | | | |
|------------|----------|----------|------------|----------|---|
| TNR | 9 | G | 271 | K | |
| | | | | | Varistor Voltage Tolerance: K = $\pm 10\%$ |
| | | | | | Nominal Varistor Voltage: Expressed in volts. The first two digits are significant figures, and the third digit indicates the number of zeros following these figures (e.g. 270 = 27V; 271 = 270V). |
| | | | | | Series Name: Indicates Basic Varistor Style. |
| | | | | | Nominal Case Diameter: 7 = \varnothing 7mm; 9 = \varnothing 9mm; 12 = \varnothing 12mm; 15 = \varnothing 15mm; 23 = \varnothing 23mm. |
| | | | | | TNR: Alpha Prefix for Varistors. |

G Series

Varistor Standard Ratings - Radial Lead

| Nom. Case Dia. | Catalog Part Number | Maximum Applied Voltage (Continuous) | | Maximum Peak Current (8/20 μ sec.) (A) | Maximum Energy (2msec.) (J) | Rated Wattage (W) | Maximum Clamping Voltage | | Capacitance (typical) at 1kHz (pF) | Varistor Voltage at 0.1mA DC (V \pm 10%) |
|--------------------|---------------------|--------------------------------------|-----|--|-----------------------------|-------------------|--------------------------|-----|------------------------------------|--|
| | | VAC _{rms} | VDC | | | | (A) | (V) | | |
| \varnothing 7 mm | TNR7G220K | 14 | 18 | 100 | 0.4 | 0.01 | 1 | 48 | 1,800 | 22 |
| | TNR7G270K | 17 | 22 | 100 | 0.5 | 0.01 | 1 | 60 | 1,500 | 27 |
| | TNR7G330K | 20 | 26 | 100 | 0.6 | 0.01 | 1 | 73 | 1,300 | 33 |
| | TNR7G390K | 25 | 30 | 100 | 0.8 | 0.01 | 1 | 86 | 1,150 | 39 |
| | TNR7G470K | 30 | 37 | 100 | 1.0 | 0.01 | 1 | 104 | 980 | 47 |
| | TNR7G560K | 35 | 44 | 100 | 1.1 | 0.01 | 1 | 123 | 840 | 56 |
| | TNR7G680K | 40 | 55 | 100 | 1.3 | 0.01 | 1 | 150 | 720 | 68 |
| | TNR7G820K | 50 | 65 | 400 | 2.0 | 0.1 | 5 | 145 | 260 | 82 |
| | TNR7G101K | 60 | 85 | 400 | 2.0 | 0.1 | 5 | 175 | 200 | 100 |
| | TNR7G121K | 75 | 100 | 400 | 3.0 | 0.1 | 5 | 210 | 170 | 120 |
| | TNR7G151K | 95 | 125 | 400 | 3.0 | 0.1 | 5 | 260 | 140 | 150 |
| | TNR7G181K | 110 | 145 | 400 | 4.0 | 0.1 | 5 | 325 | 120 | 180 |
| | TNR7G201K | 130 | 170 | 400 | 5.0 | 0.1 | 5 | 355 | 110 | 200 |
| | TNR7G221K | 140 | 180 | 400 | 5.0 | 0.1 | 5 | 380 | 105 | 220 |
| | TNR7G241K | 150 | 200 | 400 | 5.0 | 0.1 | 5 | 415 | 98 | 240 |
| | TNR7G271K | 175 | 225 | 400 | 6.0 | 0.1 | 5 | 475 | 88 | 270 |
| | TNR7G331K | 210 | 270 | 400 | 8.0 | 0.1 | 5 | 600 | 76 | 330 |
| TNR7G391K | 250 | 320 | 400 | 9.0 | 0.1 | 5 | 675 | 67 | 390 | |
| TNR7G431K | 275 | 350 | 400 | 10.0 | 0.1 | 5 | 745 | 60 | 430 | |
| TNR7G471K | 300 | 385 | 400 | 10.0 | 0.1 | 5 | 810 | 57 | 470 | |

| Nom. Case Dia. | Catalog Part Number | Maximum Applied Voltage (Continuous) | | Maximum Peak Current (8/20 μ sec.) (A) | Maximum Energy (2msec.) (J) | Rated Wattage (W) | Maximum Clamping Voltage | | Capacitance (typical) at 1kHz (pF) | Varistor Voltage at 1mA DC (V \pm 10%) |
|----------------|---------------------|--------------------------------------|-----|--|-----------------------------|-------------------|--------------------------|-----|------------------------------------|--|
| | | VAC _{rms} | VDC | | | | (A) | (V) | | |

| | | | | | | | | | | |
|--------------------|-----------|-----|-------|-------|------|------|-----|-----|-------|-----|
| \varnothing 9 mm | TNR9G180K | 10 | 14 | 250 | 0.8 | 0.02 | 2 | 35 | 5,400 | 18 |
| | TNR9G220K | 14 | 18 | 250 | 1.0 | 0.02 | 2 | 43 | 4,900 | 22 |
| | TNR9G270K | 17 | 22 | 250 | 1.0 | 0.02 | 2 | 53 | 4,200 | 27 |
| | TNR9G330K | 20 | 26 | 250 | 1.2 | 0.02 | 2 | 65 | 3,500 | 33 |
| | TNR9G390K | 25 | 30 | 250 | 1.5 | 0.02 | 2 | 77 | 3,100 | 39 |
| | TNR9G470K | 30 | 37 | 250 | 1.8 | 0.02 | 2 | 93 | 2,600 | 47 |
| | TNR9G560K | 35 | 44 | 250 | 2.2 | 0.02 | 2 | 110 | 2,300 | 56 |
| | TNR9G680K | 40 | 55 | 250 | 2.5 | 0.02 | 2 | 135 | 1,900 | 68 |
| | TNR9G820K | 50 | 65 | 1,200 | 4.0 | 0.2 | 10 | 135 | 620 | 82 |
| | TNR9G101K | 60 | 85 | 1,200 | 4.0 | 0.2 | 10 | 165 | 530 | 100 |
| | TNR9G121K | 75 | 100 | 1,200 | 5.0 | 0.2 | 10 | 195 | 460 | 120 |
| | TNR9G151K | 95 | 125 | 1,200 | 6.0 | 0.2 | 10 | 245 | 380 | 150 |
| | TNR9G181K | 110 | 145 | 1,200 | 8.0 | 0.2 | 10 | 295 | 335 | 180 |
| | TNR9G201K | 130 | 170 | 1,200 | 10.0 | 0.2 | 10 | 330 | 310 | 200 |
| | TNR9G221K | 140 | 180 | 1,200 | 10.0 | 0.2 | 10 | 360 | 280 | 220 |
| | TNR9G241K | 150 | 200 | 1,200 | 10.0 | 0.2 | 10 | 390 | 270 | 240 |
| | TNR9G271K | 175 | 225 | 1,200 | 12.0 | 0.2 | 10 | 440 | 245 | 270 |
| TNR9G331K | 210 | 270 | 1,200 | 15.0 | 0.2 | 10 | 540 | 210 | 330 | |
| TNR9G391K | 250 | 320 | 1,200 | 17.0 | 0.2 | 10 | 640 | 185 | 390 | |
| TNR9G431K | 275 | 350 | 1,200 | 20.0 | 0.2 | 10 | 700 | 170 | 430 | |
| TNR9G471K | 300 | 385 | 1,200 | 20.0 | 0.2 | 10 | 765 | 160 | 470 | |

| | | | | | | | | | | |
|---------------------|------------|-----|-----|-------|------|------|----|-----|-------|-----|
| \varnothing 12 mm | TNR12G180K | 10 | 14 | 500 | 1.5 | 0.05 | 5 | 35 | 9,000 | 18 |
| | TNR12G220K | 14 | 18 | 500 | 2.0 | 0.05 | 5 | 43 | 8,200 | 22 |
| | TNR12G270K | 17 | 22 | 500 | 2.5 | 0.05 | 5 | 53 | 6,900 | 27 |
| | TNR12G330K | 20 | 26 | 500 | 3.0 | 0.05 | 5 | 65 | 5,900 | 33 |
| | TNR12G390K | 25 | 30 | 500 | 3.5 | 0.05 | 5 | 77 | 5,100 | 39 |
| | TNR12G470K | 30 | 37 | 500 | 4.5 | 0.05 | 5 | 93 | 4,400 | 47 |
| | TNR12G560K | 35 | 44 | 500 | 5.5 | 0.05 | 5 | 110 | 3,800 | 56 |
| | TNR12G680K | 40 | 55 | 500 | 6.5 | 0.05 | 5 | 135 | 3,200 | 68 |
| | TNR12G820K | 50 | 65 | 2,500 | 8.0 | 0.4 | 25 | 135 | 1,200 | 82 |
| | TNR12G101K | 60 | 85 | 2,500 | 10.0 | 0.4 | 25 | 165 | 1,050 | 100 |
| | TNR12G121K | 75 | 100 | 2,500 | 12.0 | 0.4 | 25 | 195 | 910 | 120 |
| | TNR12G151K | 95 | 125 | 2,500 | 16.0 | 0.4 | 25 | 245 | 770 | 150 |
| | TNR12G181K | 110 | 145 | 2,500 | 18.0 | 0.4 | 25 | 295 | 670 | 180 |

G Series

Varistor Standard Ratings - Radial Lead

| Nom. Case Dia. | Catalog Part Number | Maximum Applied Voltage (Continuous) | | Maximum Peak Current (8/20 μ sec.) (A) | Maximum Energy (2msec.) (J) | Rated Wattage (W) | Maximum Clamping Voltage | | Capacitance (typical) at 1kHz (pF) | Varistor Voltage at 1mA DC (V \pm 10%) |
|----------------|---------------------|--------------------------------------|-----|--|-----------------------------|-------------------|--------------------------|-----|------------------------------------|--|
| | | VAC _{rms} | VDC | | | | (A) | (V) | | |

| | | | | | | | | | | |
|---------------|------------|-----|-------|-------|------|-----|-------|-------|-------|-----|
| Ø12 mm | TNR12G201K | 130 | 170 | 2,500 | 20.0 | 0.4 | 25 | 330 | 620 | 200 |
| | TNR12G221K | 140 | 180 | 2,500 | 25.0 | 0.4 | 25 | 360 | 570 | 220 |
| | TNR12G241K | 150 | 200 | 2,500 | 25.0 | 0.4 | 25 | 390 | 530 | 240 |
| | TNR12G271K | 175 | 225 | 2,500 | 30.0 | 0.4 | 25 | 440 | 490 | 270 |
| | TNR12G331K | 210 | 270 | 2,500 | 35.0 | 0.4 | 25 | 540 | 420 | 330 |
| | TNR12G391K | 250 | 320 | 2,500 | 40.0 | 0.4 | 25 | 640 | 370 | 390 |
| | TNR12G431K | 275 | 350 | 2,500 | 45.0 | 0.4 | 25 | 700 | 340 | 430 |
| | TNR12G471K | 300 | 385 | 2,500 | 45.0 | 0.4 | 25 | 765 | 320 | 470 |
| | TNR12G561K | 350 | 460 | 2,500 | 45.0 | 0.4 | 25 | 910 | 280 | 560 |
| | TNR12G681K | 420 | 560 | 2,500 | 45.0 | 0.4 | 25 | 1,110 | 240 | 680 |
| TNR12G821K | 510 | 670 | 2,500 | 55.0 | 0.4 | 25 | 1,340 | 210 | 820 | |
| TNR12G102K | 625 | 825 | 2,500 | 65.0 | 0.4 | 25 | 1,630 | 180 | 1,000 | |

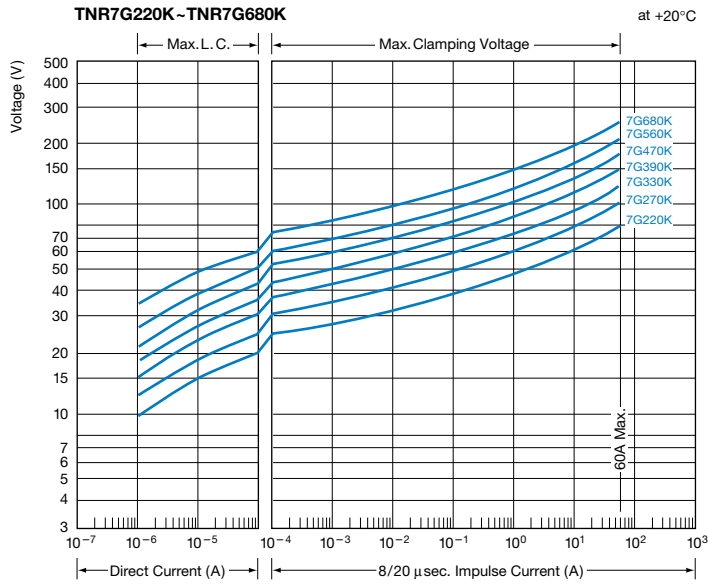
| | | | | | | | | | | |
|---------------|------------|-----|-------|-------|------|-----|-------|-----|--------|-----|
| Ø15 mm | TNR15G150K | 8 | 12 | 1,000 | 5.0 | 0.1 | 10 | 30 | 12,000 | 15 |
| | TNR15G180K | 10 | 14 | 1,000 | 5.0 | 0.1 | 10 | 35 | 11,500 | 18 |
| | TNR15G220K | 14 | 18 | 1,000 | 5.0 | 0.1 | 10 | 43 | 11,000 | 22 |
| | TNR15G270K | 17 | 22 | 1,000 | 5.0 | 0.1 | 10 | 53 | 10,000 | 27 |
| | TNR15G330K | 20 | 26 | 1,000 | 6.0 | 0.1 | 10 | 65 | 8,500 | 33 |
| | TNR15G390K | 25 | 30 | 1,000 | 10.0 | 0.1 | 10 | 77 | 7,500 | 39 |
| | TNR15G470K | 30 | 37 | 1,000 | 10.0 | 0.1 | 10 | 93 | 6,500 | 47 |
| | TNR15G560K | 35 | 44 | 1,000 | 10.0 | 0.1 | 10 | 110 | 5,600 | 56 |
| | TNR15G680K | 40 | 55 | 1,000 | 12.0 | 0.1 | 10 | 135 | 4,800 | 68 |
| | TNR15G820K | 50 | 65 | 4,500 | 15.0 | 0.6 | 50 | 135 | 1,700 | 82 |
| | TNR15G101K | 60 | 85 | 4,500 | 20.0 | 0.6 | 50 | 165 | 1,470 | 100 |
| | TNR15G121K | 75 | 100 | 4,500 | 20.0 | 0.6 | 50 | 195 | 1,280 | 120 |
| | TNR15G151K | 95 | 125 | 4,500 | 25.0 | 0.6 | 50 | 245 | 1,070 | 150 |
| | TNR15G181K | 110 | 145 | 4,500 | 30.0 | 0.6 | 50 | 295 | 930 | 180 |
| | TNR15G201K | 130 | 170 | 4,500 | 35.0 | 0.6 | 50 | 330 | 850 | 200 |
| | TNR15G221K | 140 | 180 | 4,500 | 40.0 | 0.6 | 50 | 360 | 800 | 220 |
| | TNR15G241K | 150 | 200 | 4,500 | 40.0 | 0.6 | 50 | 390 | 740 | 240 |
| | TNR15G271K | 175 | 225 | 4,500 | 50.0 | 0.6 | 50 | 440 | 680 | 270 |
| | TNR15G331K | 210 | 270 | 4,500 | 60.0 | 0.6 | 50 | 540 | 590 | 330 |
| | TNR15G391K | 250 | 320 | 4,500 | 70.0 | 0.6 | 50 | 640 | 510 | 390 |
| TNR15G431K | 275 | 350 | 4,500 | 75.0 | 0.6 | 50 | 700 | 480 | 430 | |
| TNR15G471K | 300 | 385 | 4,500 | 80.0 | 0.6 | 50 | 765 | 450 | 470 | |
| TNR15G561K | 350 | 460 | 4,500 | 85.0 | 0.6 | 50 | 910 | 390 | 560 | |
| TNR15G681K | 420 | 560 | 4,500 | 90.0 | 0.6 | 50 | 1,110 | 340 | 680 | |
| TNR15G821K | 510 | 670 | 4,500 | 110.0 | 0.6 | 50 | 1,340 | 280 | 820 | |
| TNR15G102K | 625 | 825 | 4,500 | 130.0 | 0.6 | 50 | 1,630 | 250 | 1,000 | |

| | | | | | | | | | | |
|---------------|------------|-----|-----|-------|-------|-----|-----|-------|-------|-------|
| Ø23 mm | TNR23G181K | 110 | 145 | 6,500 | 60.0 | 1.0 | 100 | 295 | 2,500 | 180 |
| | TNR23G201K | 130 | 170 | 6,500 | 70.0 | 1.0 | 100 | 330 | 2,300 | 200 |
| | TNR23G221K | 140 | 180 | 6,500 | 75.0 | 1.0 | 100 | 360 | 2,150 | 220 |
| | TNR23G241K | 150 | 200 | 6,500 | 80.0 | 1.0 | 100 | 390 | 2,000 | 240 |
| | TNR23G271K | 175 | 225 | 6,500 | 90.0 | 1.0 | 100 | 440 | 1,850 | 270 |
| | TNR23G331K | 210 | 270 | 6,500 | 110.0 | 1.0 | 100 | 540 | 1,600 | 330 |
| | TNR23G391K | 250 | 320 | 6,500 | 130.0 | 1.0 | 100 | 640 | 1,400 | 390 |
| | TNR23G431K | 275 | 350 | 6,500 | 140.0 | 1.0 | 100 | 700 | 1,300 | 430 |
| | TNR23G471K | 300 | 385 | 6,500 | 150.0 | 1.0 | 100 | 765 | 1,200 | 470 |
| | TNR23G561K | 350 | 460 | 6,500 | 150.0 | 1.5 | 100 | 910 | 1,050 | 560 |
| | TNR23G681K | 420 | 560 | 6,500 | 160.0 | 1.5 | 100 | 1,110 | 900 | 680 |
| | TNR23G821K | 510 | 670 | 6,500 | 190.0 | 1.5 | 100 | 1,340 | 800 | 820 |
| | TNR23G102K | 625 | 825 | 6,500 | 230.0 | 1.5 | 100 | 1,630 | 680 | 1,000 |

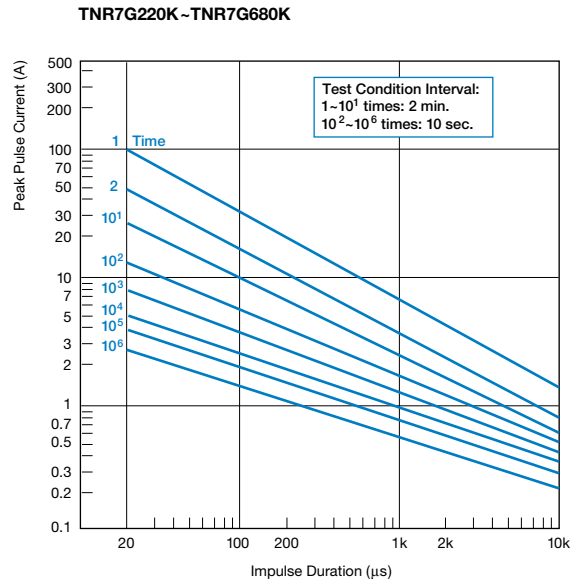
G Series

Varistor Volt - Ampere and Pulse Lifetime Characteristics

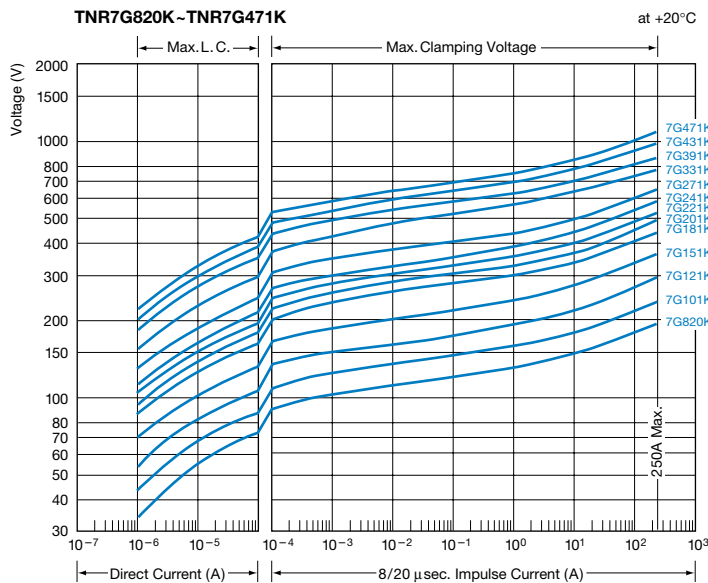
V-I Curve - 7mm Nominal Diameter



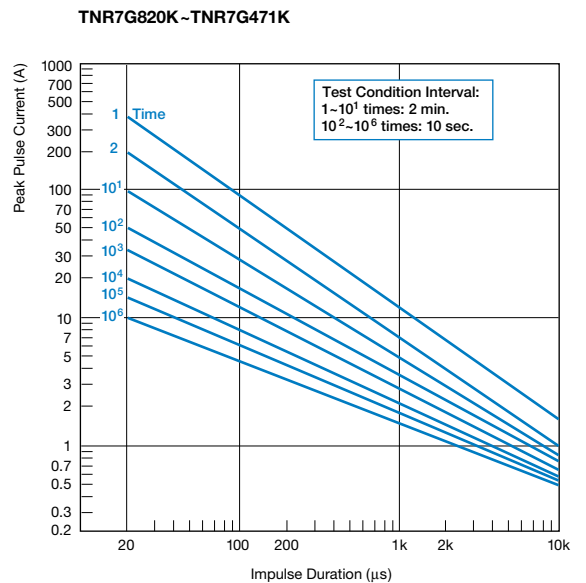
Pulse Lifetime Ratings - 7mm Nominal Diameter



V-I Curve - 7mm Nominal Diameter



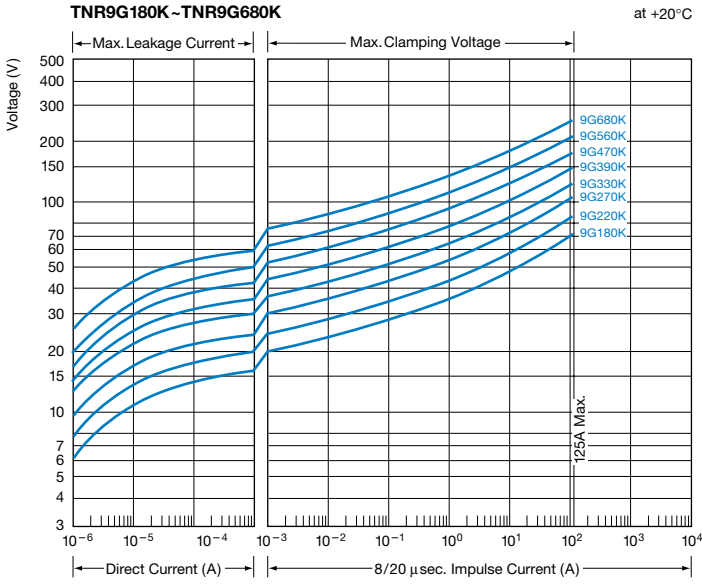
Pulse Lifetime Ratings - 7mm Nominal Diameter



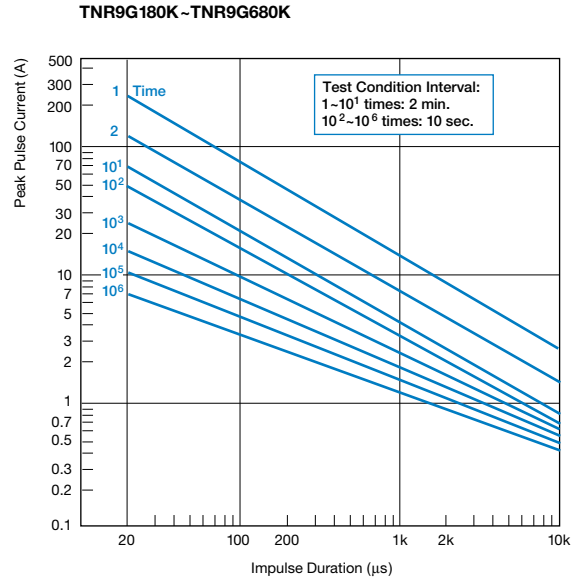
G Series

Varistor Volt-Ampere and Pulse Lifetime Characteristics

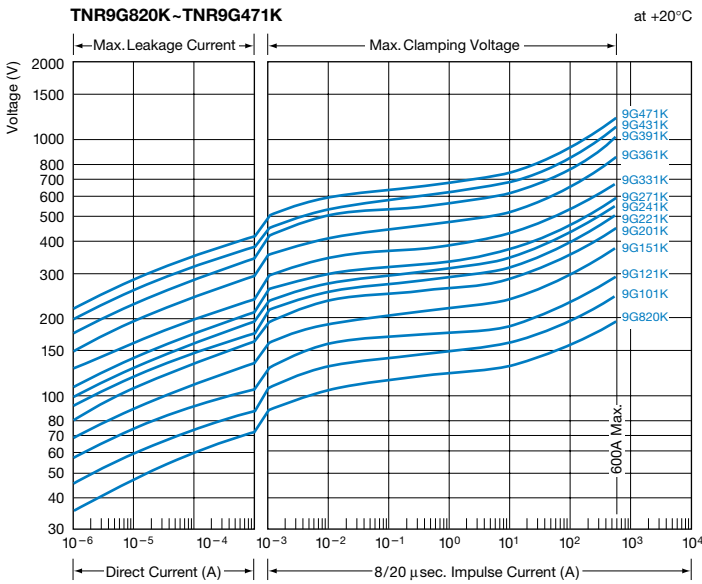
V-I Curve - 9mm Nominal Diameter



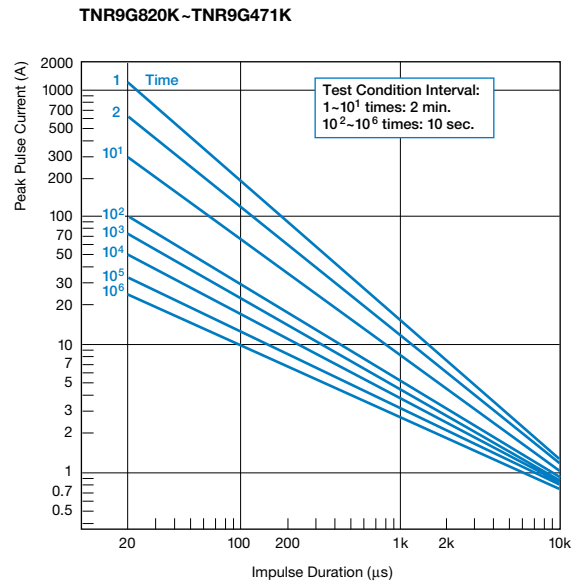
Pulse Lifetime Ratings - 9mm Nominal Diameter



V-I Curve - 9mm Nominal Diameter



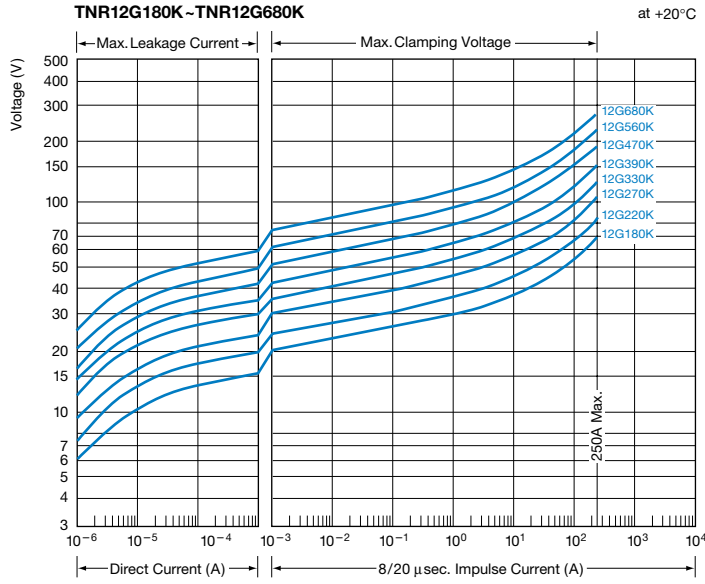
Pulse Lifetime Ratings - 9mm Nominal Diameter



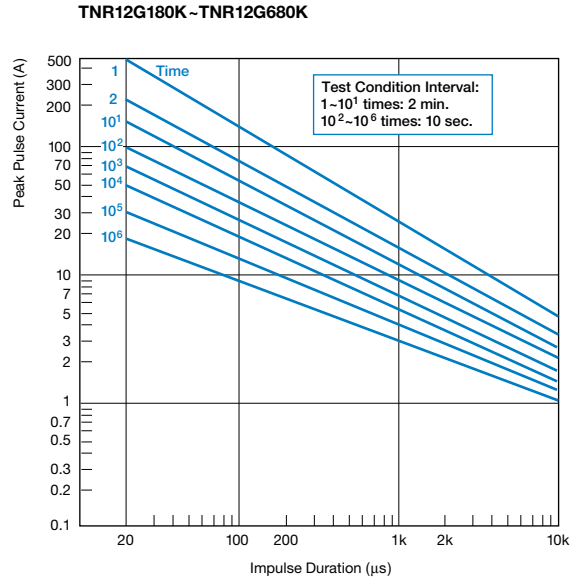
G Series

Varistor Volt - Ampere and Pulse Lifetime Characteristics

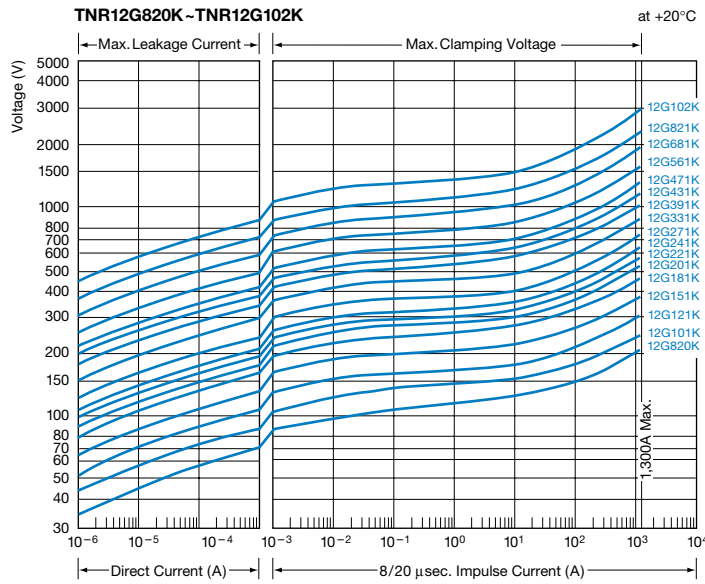
V-I Curve - 12mm Nominal Diameter



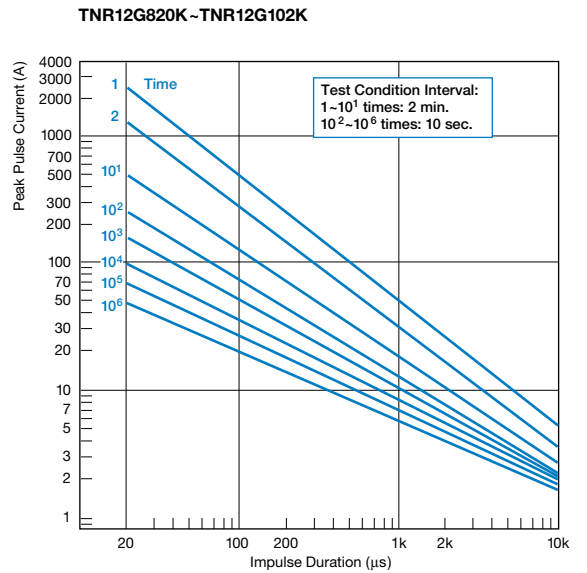
Pulse Lifetime Ratings - 12mm Nominal Diameter



V-I Curve - 12mm Nominal Diameter



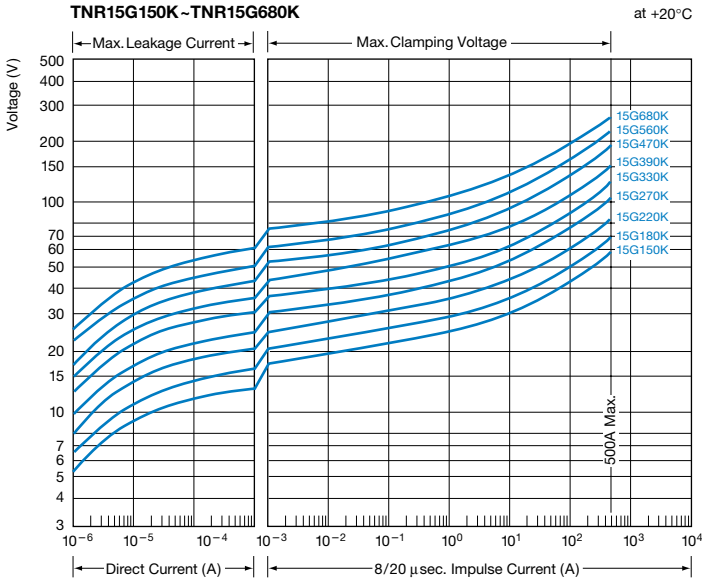
Pulse Lifetime Ratings - 12mm Nominal Diameter



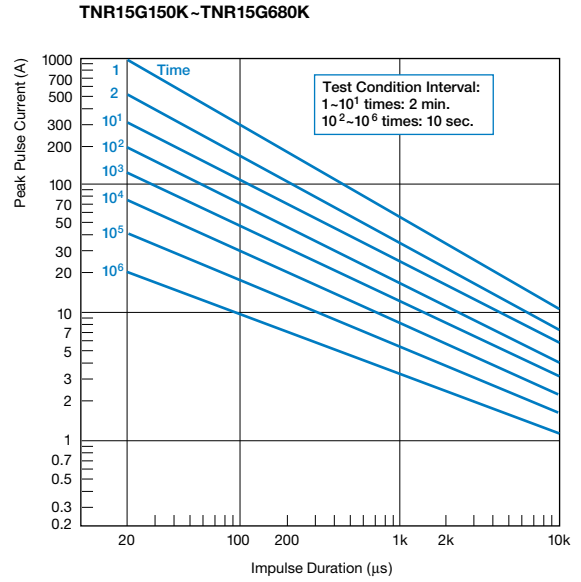
G Series

Varistor Volt-Ampere and Pulse Lifetime Characteristics

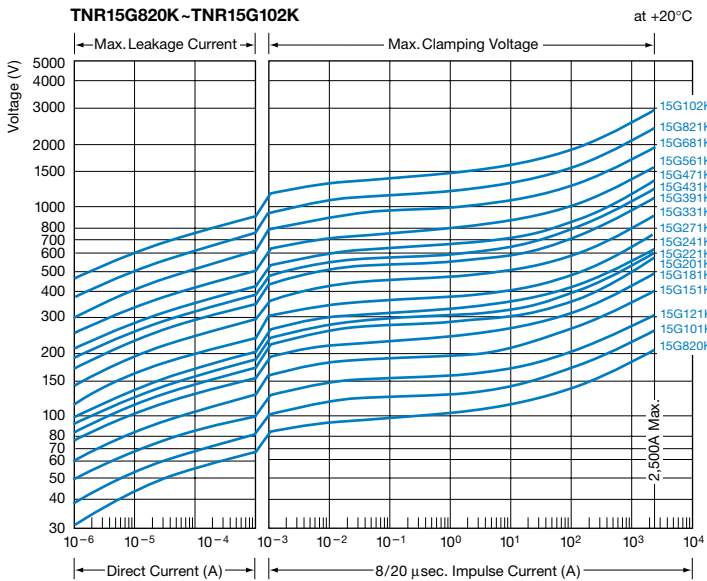
V-I Curve - 15mm Nominal Diameter



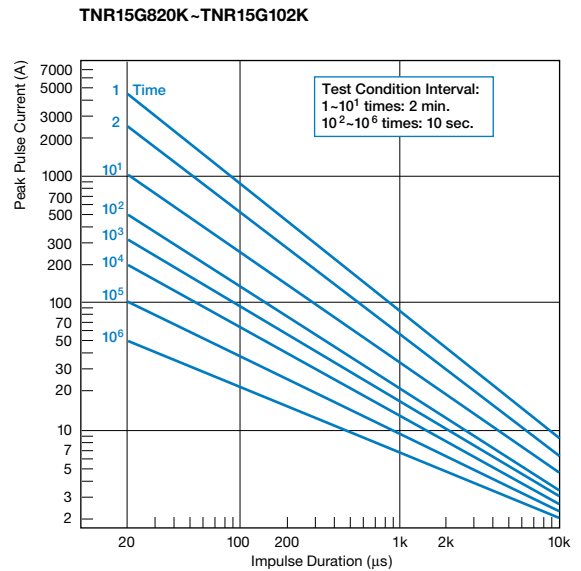
Pulse Lifetime Ratings - 15mm Nominal Diameter



V-I Curve - 15mm Nominal Diameter



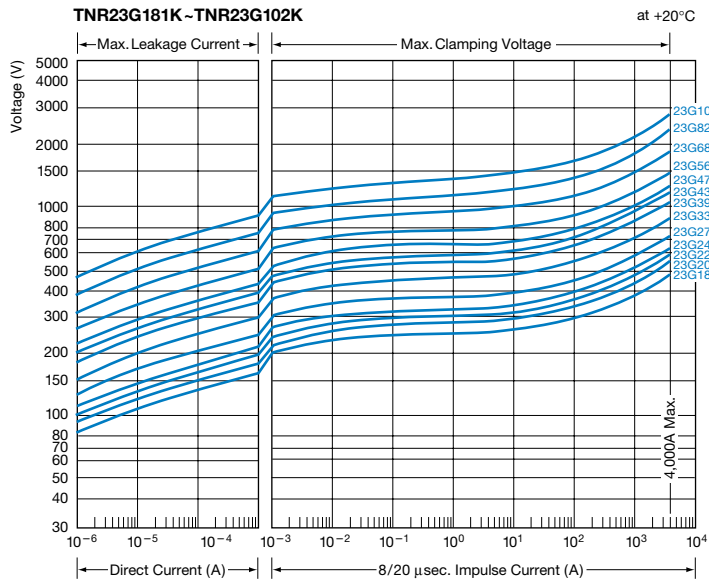
Pulse Lifetime Ratings - 15mm Nominal Diameter



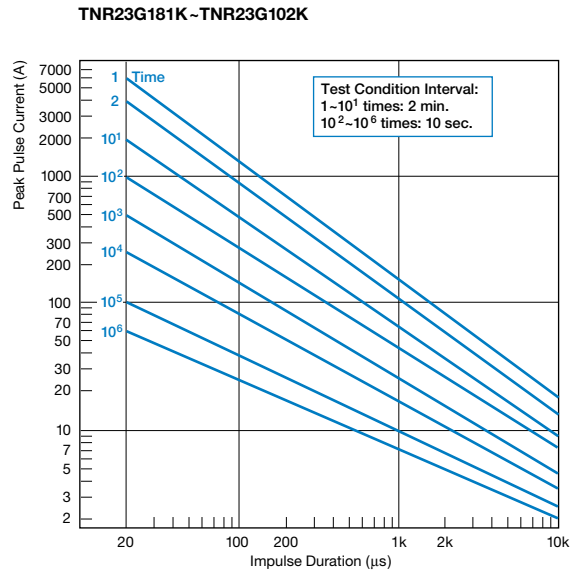
G Series

Varistor Volt - Ampere and Pulse Lifetime Characteristics

V-I Curve - 23mm Nominal Diameter



Pulse Lifetime Ratings - 23mm Nominal Diameter



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