

DATA SHEET

WIREWOUND RESISTORS

General Purpose

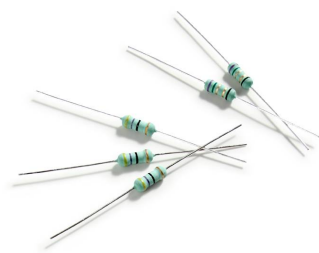
KNP Series

$\pm 1\%$, $\pm 2\%$, $\pm 5\%$

1/4W to 7W

RoHS compliant & Halogen Free





APPLICATIONS

- Power applications
- Home appliance
- Industry

FEATURES

- Higher power rating
- Wide resistance range
- High stable performance and high reliability
- Flameproof coating equivalent to UL-94V-0
- RoHS compliant & halogen-free

ORDERING INFORMATION

Part number of the wirewound resistor is identified by the series, power rating, tolerance, packing, temperature coefficient, forming and resistance value.

PART NUMBER

KNP **100** **J** **I** **-** **73-** **100R**
 (1) (2) (3) (4) (5) (6) (7)

(1) SERIES

KNP Series

(2) POWER RATING

| | | |
|------------|----------|----------|
| -25 = 1/4W | 200 = 2W | 500 = 5W |
| 50S = 1/2W | 3WS = 3W | 600 = 6W |
| -50 = 1/2W | 3SS = 3W | 700 = 7W |
| 1WS = 1W | 300 = 3W | 7WS = 7W |
| 100 = 1W | 400 = 4W | |
| 2WS = 2W | 5WS = 5W | |

(3) TOLERANCE

F = ±1% G = ±2% J = ±5%

(4) PACKAGING

T = Box Pack R = Reel Pack B = Bulk

(5) TEMPERATURE COEFFICIENT OF RESISTANCE

- = Based on spec.

(6) FORMING

| | |
|--------------------|----------------------|
| 52- = 52.4mm | FK = FK Type |
| 73- = 73mm | FFK = F-form Kink |
| 91- = 91mm | FKK = FKK Type |
| M = M-Type Forming | FT = FT Type Forming |
| MB = M-form W/flat | PN = PANAsert |
| F = F Type | AV = AVIsert |

(7) RESISTANCE VALUE

E24 & E96 Series
 Example:
 0R1= 0.1Ω, 100R= 100Ω, 1K = 1,000Ω

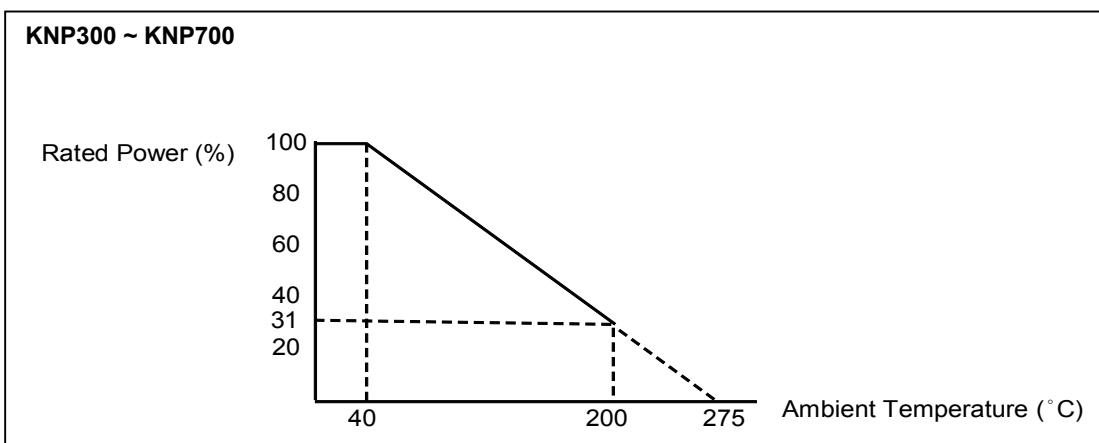
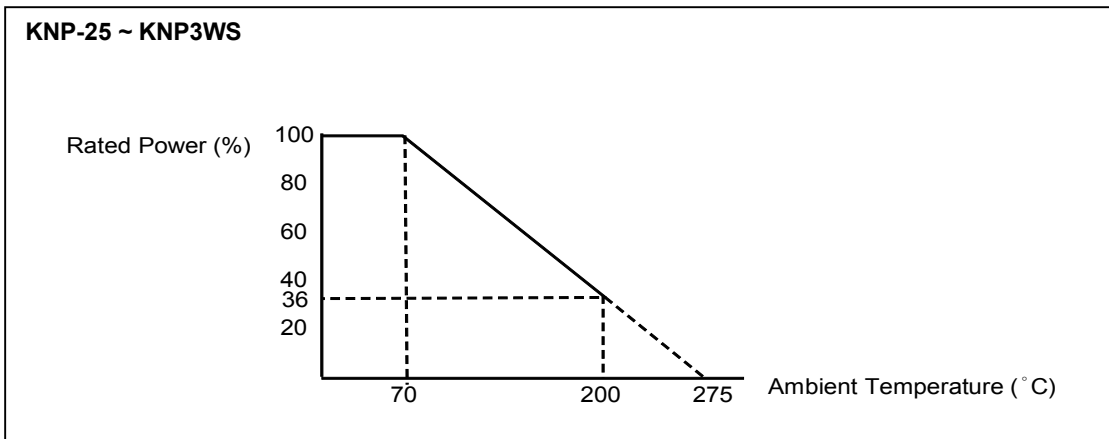
DIMENSIONS

Unit: mm



| Normal | Miniature | L | ψD | H | ψd |
|--------|-----------|------------|-----------|----------|-------------|
| KNP-25 | KNP50S | 6.3 ± 0.5 | 2.5 ± 0.3 | 28 ± 2.0 | 0.55 ± 0.05 |
| KNP-50 | KNP1WS | 9.0 ± 0.5 | 3.5 ± 0.3 | 26 ± 2.0 | 0.55 ± 0.05 |
| KNP100 | KNP2WS | 11.5 ± 1.0 | 4.6 ± 0.5 | 35 ± 2.0 | 0.8 ± 0.05 |
| | KNP3SS | 11.5 ± 1.0 | 4.6 ± 0.5 | 35 ± 2.0 | 0.8 ± 0.05 |
| KNP200 | KNP3WS | 15.5 ± 1.0 | 5.2 ± 0.5 | 33 ± 2.0 | 0.8 ± 0.05 |
| KNP300 | KNP5WS | 17.5 ± 1.0 | 6.2 ± 0.5 | 32 ± 2.0 | 0.8 ± 0.05 |
| KNP400 | | 17.5 ± 1.0 | 6.2 ± 0.5 | 32 ± 2.0 | 0.8 ± 0.05 |
| KNP500 | KNP7WS | 24.5 ± 1.0 | 8.2 ± 0.5 | 38 ± 2.0 | 0.8 ± 0.05 |
| KNP600 | | 24.5 ± 1.0 | 8.2 ± 0.5 | 38 ± 2.0 | 0.8 ± 0.05 |
| KNP700 | - | 24.5 ± 1.0 | 8.2 ± 0.5 | 38 ± 2.0 | 0.8 ± 0.05 |

DERATING CURVE



ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS | KNP-25 | KNP-50 | KNP100 | KNP200 | KNP300 | KNP400 | KNP500 | KNP600 | KNP700 |
|------------------------------|-----------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Power Rating at 40 °C | | | | | 3W | 4W | 5W | 6W | 7W |
| Power Rating at 70 °C | 1/4W | 1/2W | 1W | 2W | | | | | |
| Resistance Range (±1%) | 0.1Ω - 150Ω | 0.1Ω - 750Ω | 0.1Ω - 1.5KΩ | 0.1Ω - 2.4KΩ | 0.1Ω - 3.3KΩ | 0.1Ω - 3.3KΩ | 0.1Ω - 6.2KΩ | 0.1Ω - 6.2KΩ | 0.1Ω - 6.2KΩ |
| Resistance Range (±2% & ±5%) | 0.1Ω - 200Ω | 0.1Ω - 800Ω | 0.1Ω - 2.2KΩ | 0.1Ω - 2.7KΩ | 0.1Ω - 3.9KΩ | 0.1Ω - 3.9KΩ | 0.1Ω - 6.8KΩ | 0.1Ω - 6.8KΩ | 0.1Ω - 6.8KΩ |
| Voltage Proof on Insulation | 250V | 300V | 400V | 400V | 400V | 400V | 400V | 400V | 400V |
| Maximum working voltage | $\sqrt{(P \times R)}$ | | | | | | | | |
| Operating Temp. Range | - 40°C to +200°C | | | | | | | | |
| Temperature Coefficient | ±300ppm/°C | | | | | | | | |

Note: For resistance value out of above range is by request.

| CHARACTERISTICS | KNP50S | KNP1WS | KNP2WS | KNP3SS | KNP3WS | KNP5WS | KNP7WS |
|------------------------------|-----------------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Power Rating at 40 °C | | | | | | 5W | 7W |
| Power Rating at 70 °C | 1/2W | 1W | 2W | 3W | 3W | | |
| Resistance Range (±1%) | 0.1Ω - 150Ω | 0.1Ω - 750Ω | 0.1Ω - 1.5KΩ | 0.1Ω - 1.5KΩ | 0.1Ω - 2.4KΩ | 0.1Ω - 3.3KΩ | 0.1Ω - 3.3KΩ |
| Resistance Range (±2% & ±5%) | 0.1Ω - 200Ω | 0.1Ω - 800Ω | 0.1Ω - 2.2KΩ | 0.1Ω - 2.2KΩ | 0.1Ω - 2.7KΩ | 0.1Ω - 3.9KΩ | 0.1Ω - 3.9KΩ |
| Voltage Proof on Insulation | 200V | 300V | 400V | 400V | 400V | 400V | 400V |
| Maximum working voltage | $\sqrt{(P \times R)}$ | | | | | | |
| Operating Temp. Range | - 40°C to +200°C | | | | | | |
| Temperature Coefficient | ±300ppm/°C | | | | | | |

Note: For resistance value out of above range is by request.

TEST AND REQUIREMENTS

| TEST | TEST METHOD | PROCEDURE | APPRAISE |
|-------------------------------|------------------|---|---|
| Short Time Overload | IEC 60115-1 4.13 | 10 times rated power for 5 sec. | ±2%+0.05Ω |
| Voltage Proof on Insulation | IEC 60115-1 4.7 | In V-Block for 60 sec. test voltage as above table | No Breakdown |
| Temperature Coefficient | IEC 60115-1 4.8 | Between -40°C to +155°C | By Type |
| Insulation Resistance | IEC 60115-1 4.6 | In V-Block for 60 sec. | >100MΩ |
| Solderability | IEC 60115-1 4.17 | 245±5°C for 3±0.5 Sec. | 95% Min. coverage |
| Solvent Resistance of Marking | IEC 60115-1 4.30 | IPA for 5±0.5 Min. with ultrasonic | No deterioration of coatings and markings |
| Robustness of Terminations | IEC 60115-1 4.16 | Direct load for 10 Sec. in the direction of the terminal leads | ≥2.5Kg(24.5N) |
| Damp Heat Steady State | IEC 60115-1 4.24 | 40±2°C,90-95% RH for 56 days, loaded with 0.1 times RCWV | ±5.0%+0.05Ω |
| Endurance at 70°C | IEC 60115-1 4.25 | 70±2°C at RCWV(or Umax., whichever less) for 1,000 Hr.(1.5 Hr.on,0.5 Hr. off) | ±5.0%+0.05Ω |
| Temperature Cycling | IEC 60115-1 4.19 | → -55°C → Room Temp. → +155°C Room Temp.(5 cycles) | ±1.0%+0.05Ω |
| Resistance to Soldering Heat | IEC 60115-1 4.18 | 260±3°C for 10±1 Sec., immersed to a point 3±0.5mm from the body | ±1.0 %+0.05Ω |
| Accidental Overload Test | IEC 60115-1 4.26 | 4 times RCWV for 1 Min. | No evidence of flaming or arcing |

Note:

RCWV (Rated Continuous Working Voltage):

The DC or AC (rms) continuous working voltage corresponding to the rated power is determined by the following formula:

$$V=\sqrt{(P \times R)}$$

or max. working voltage whichever is less

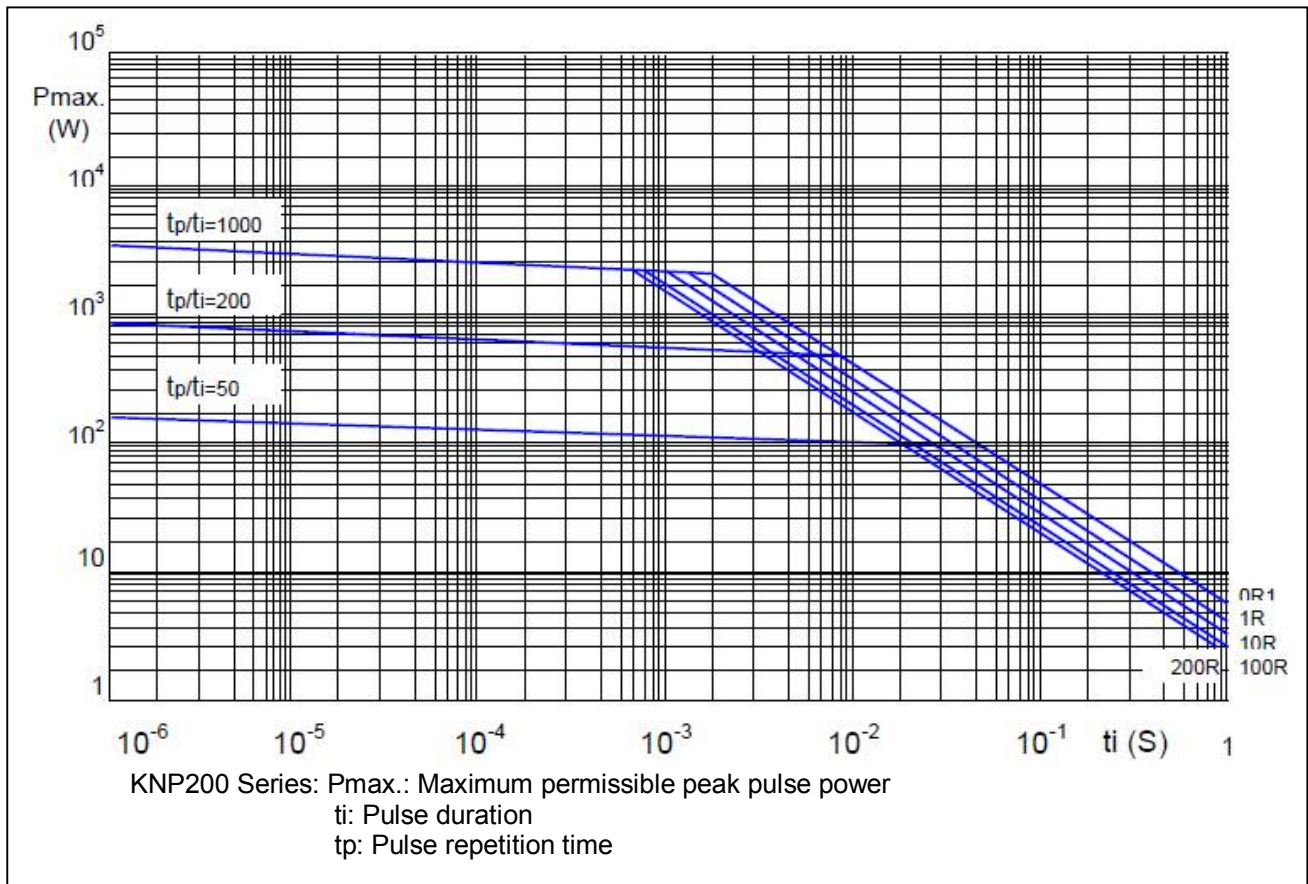
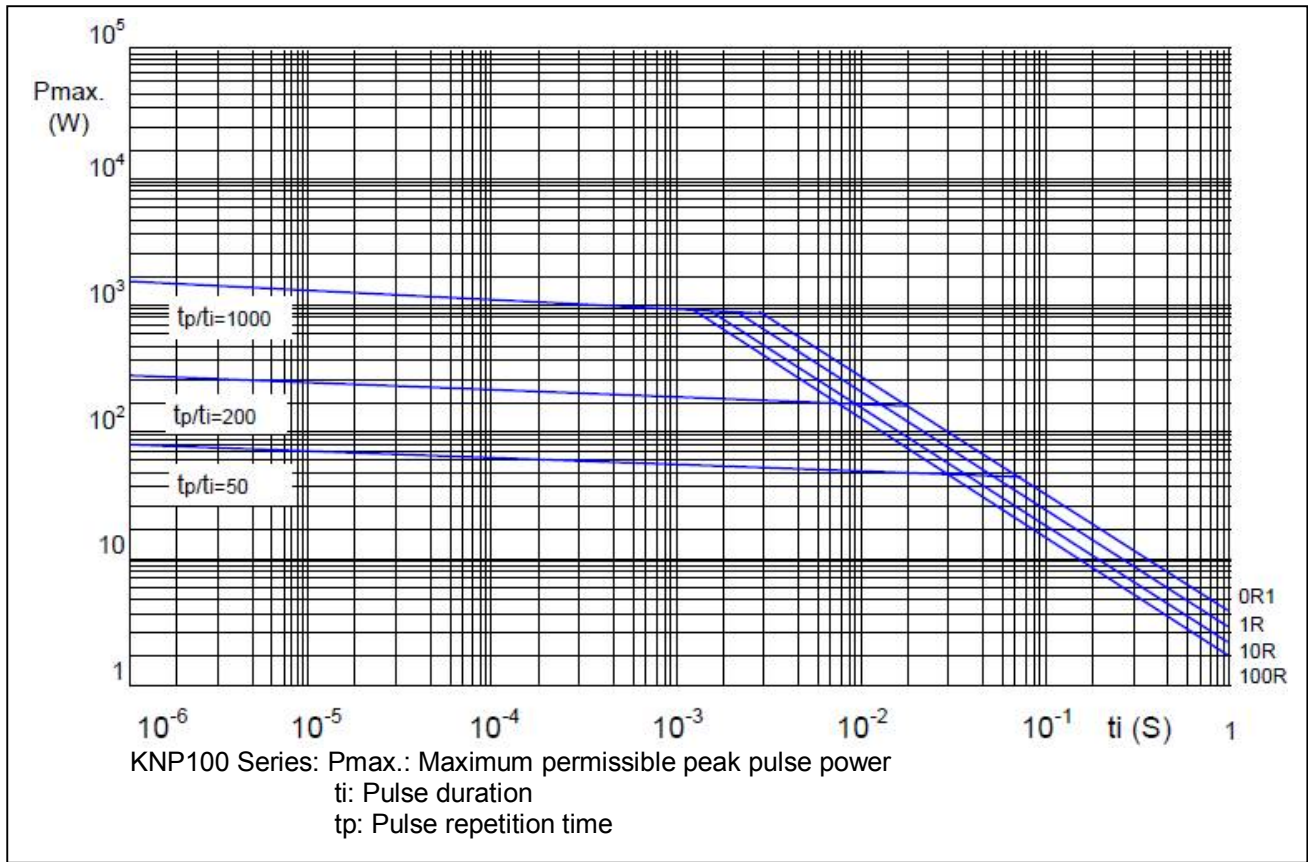
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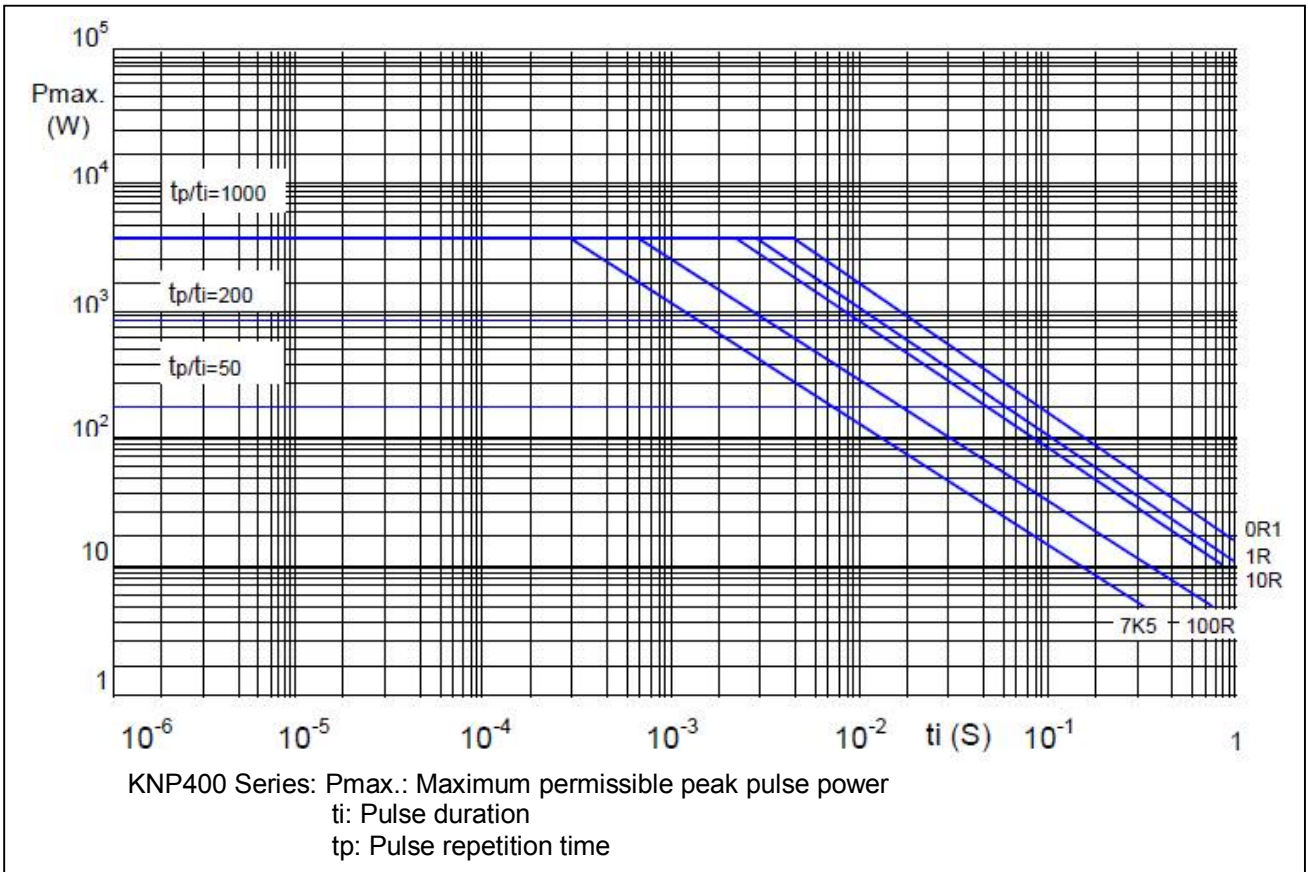
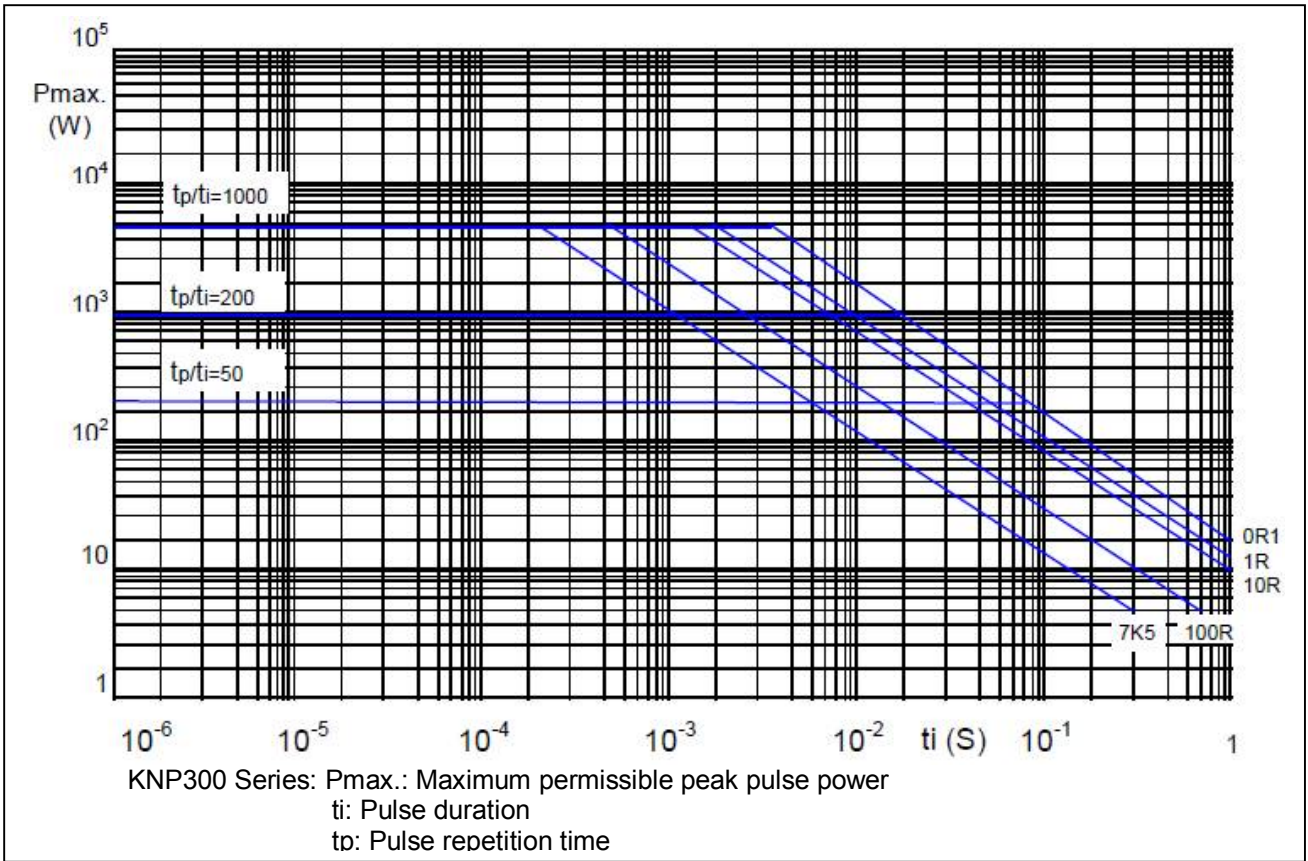
V=Continuous rated DC or
AC (rms) working voltage (V)

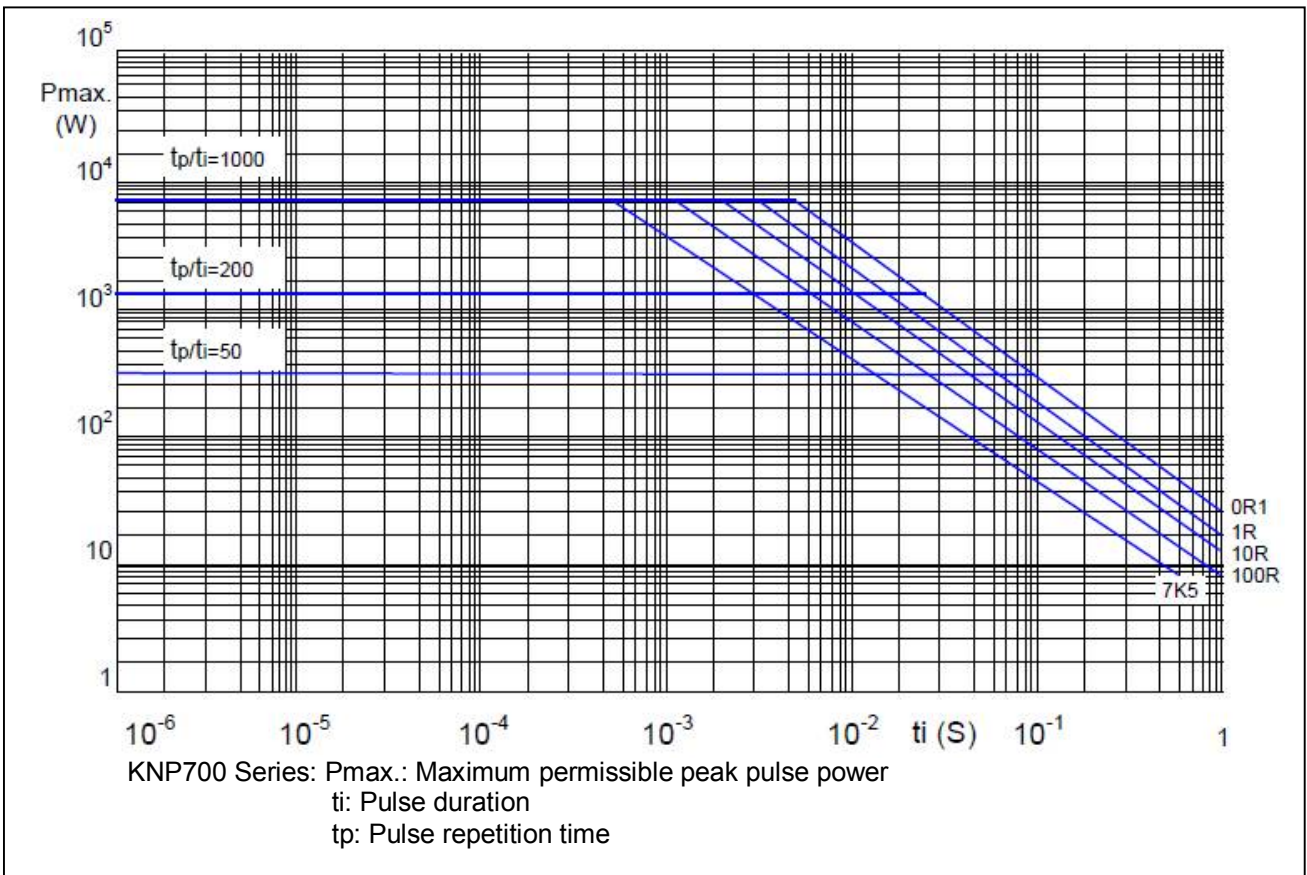
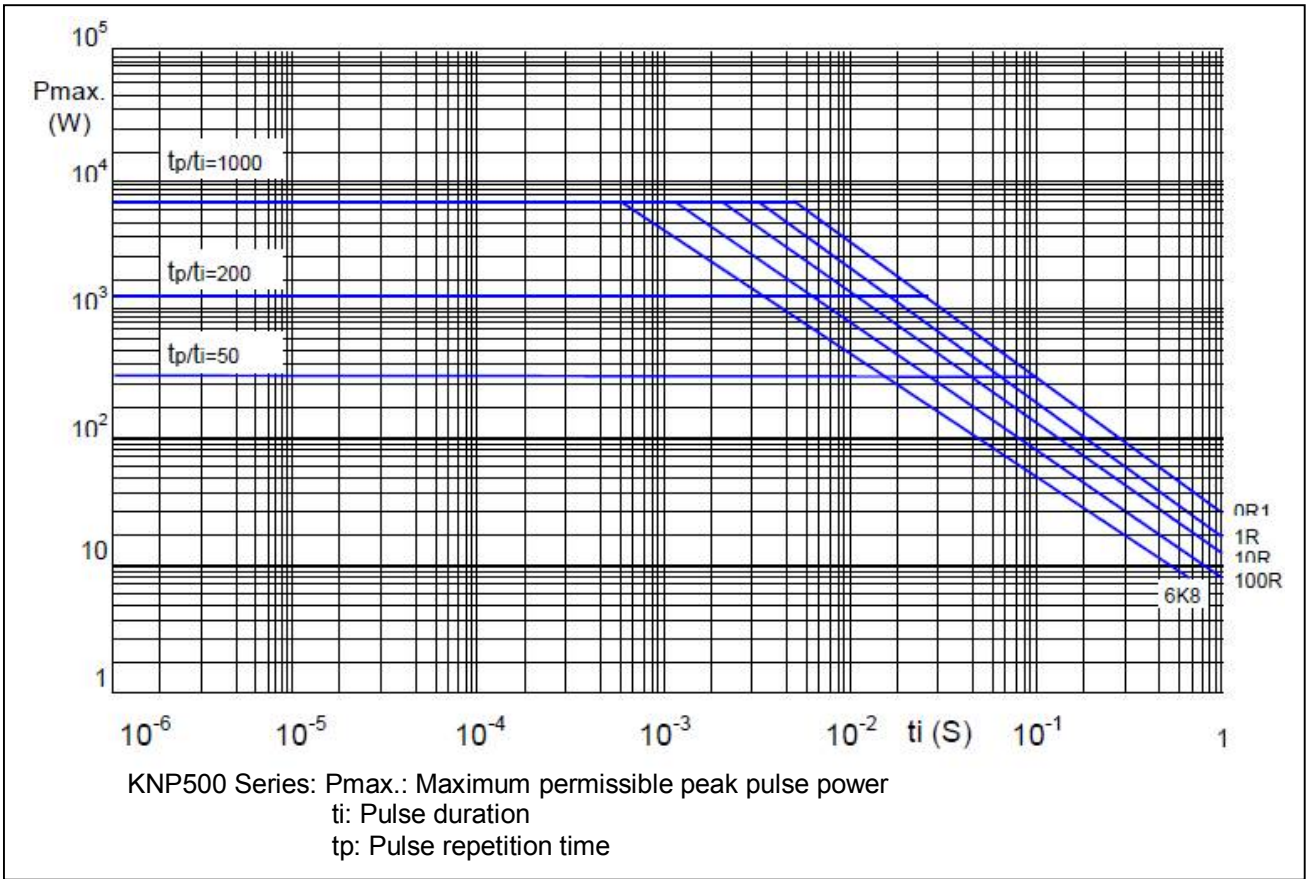
P=Rated power (W)

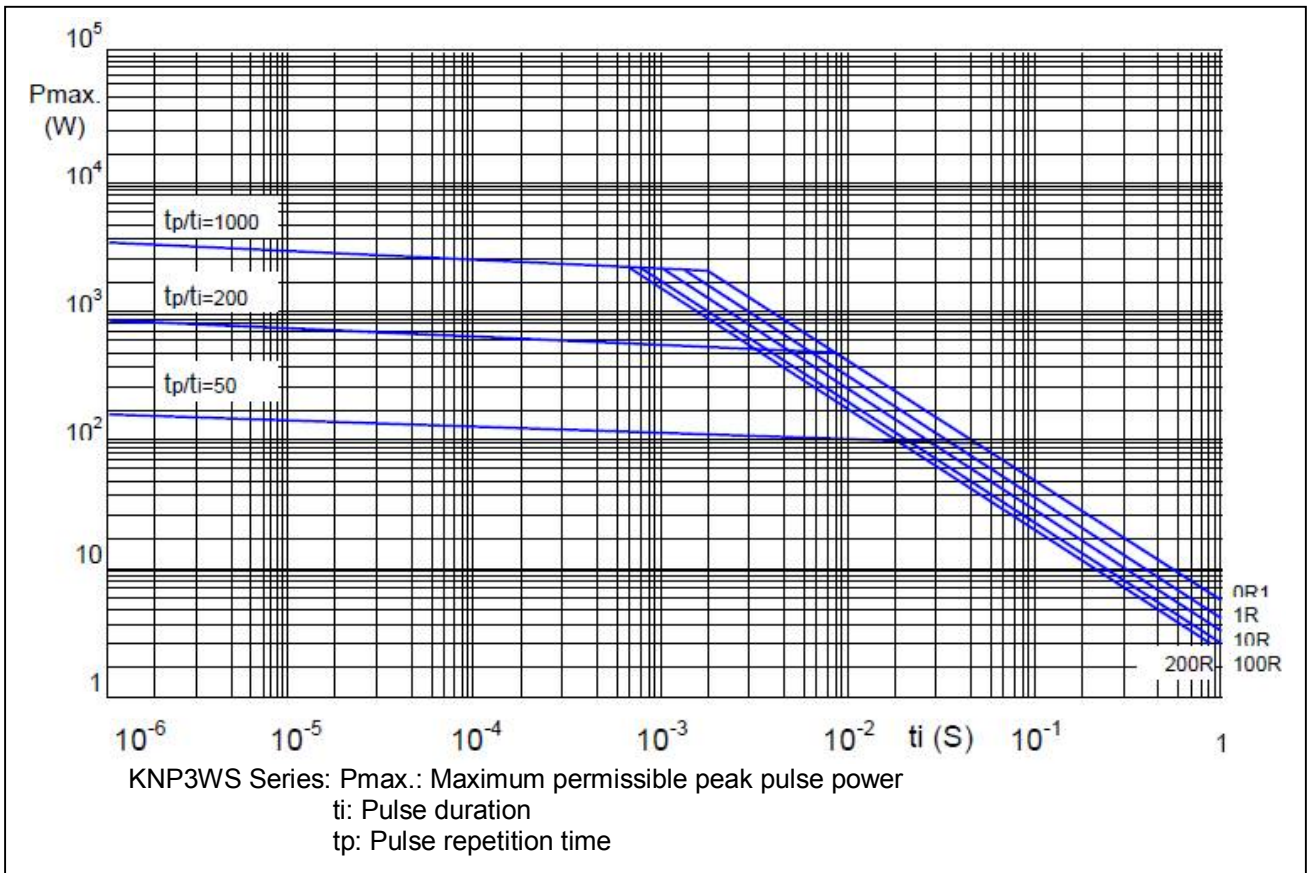
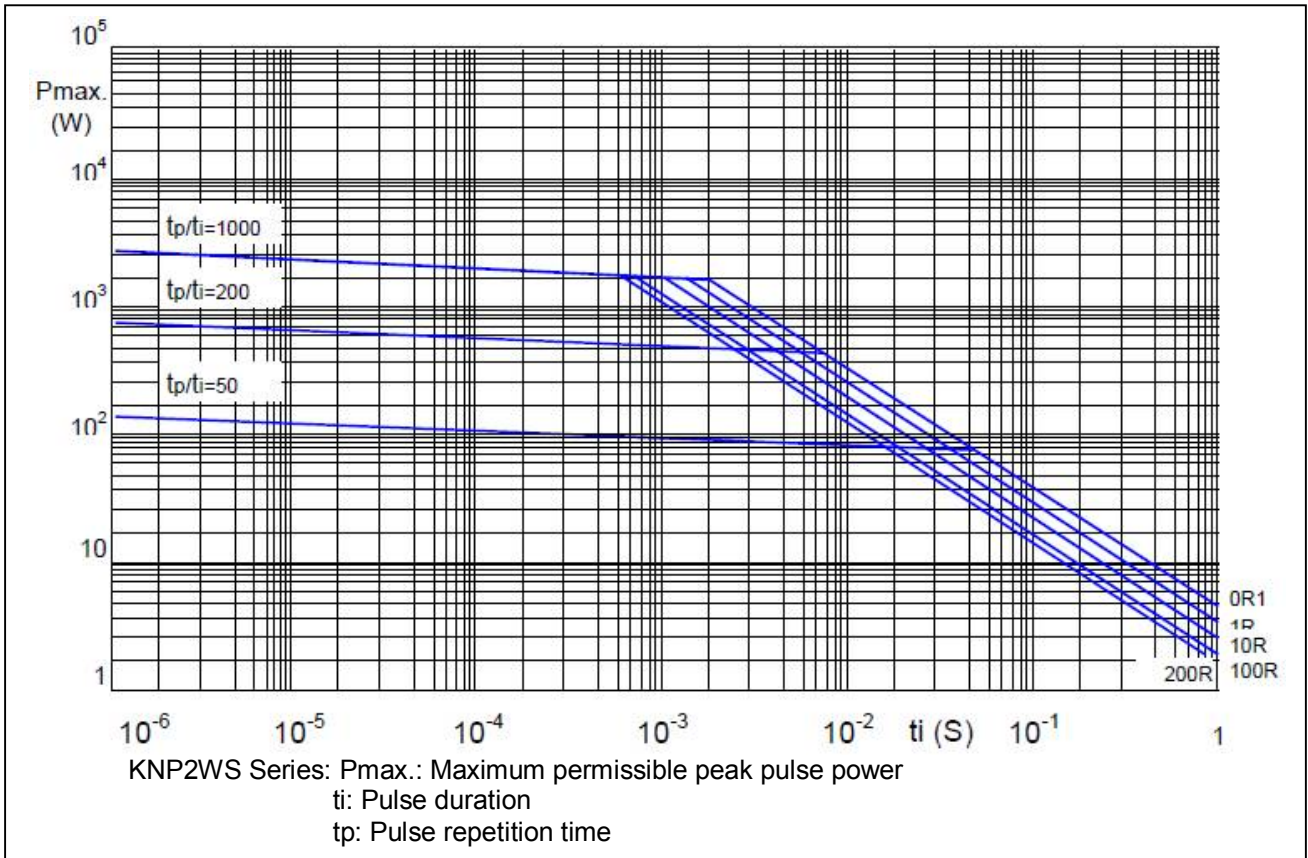
R=Resistance value (Ω)

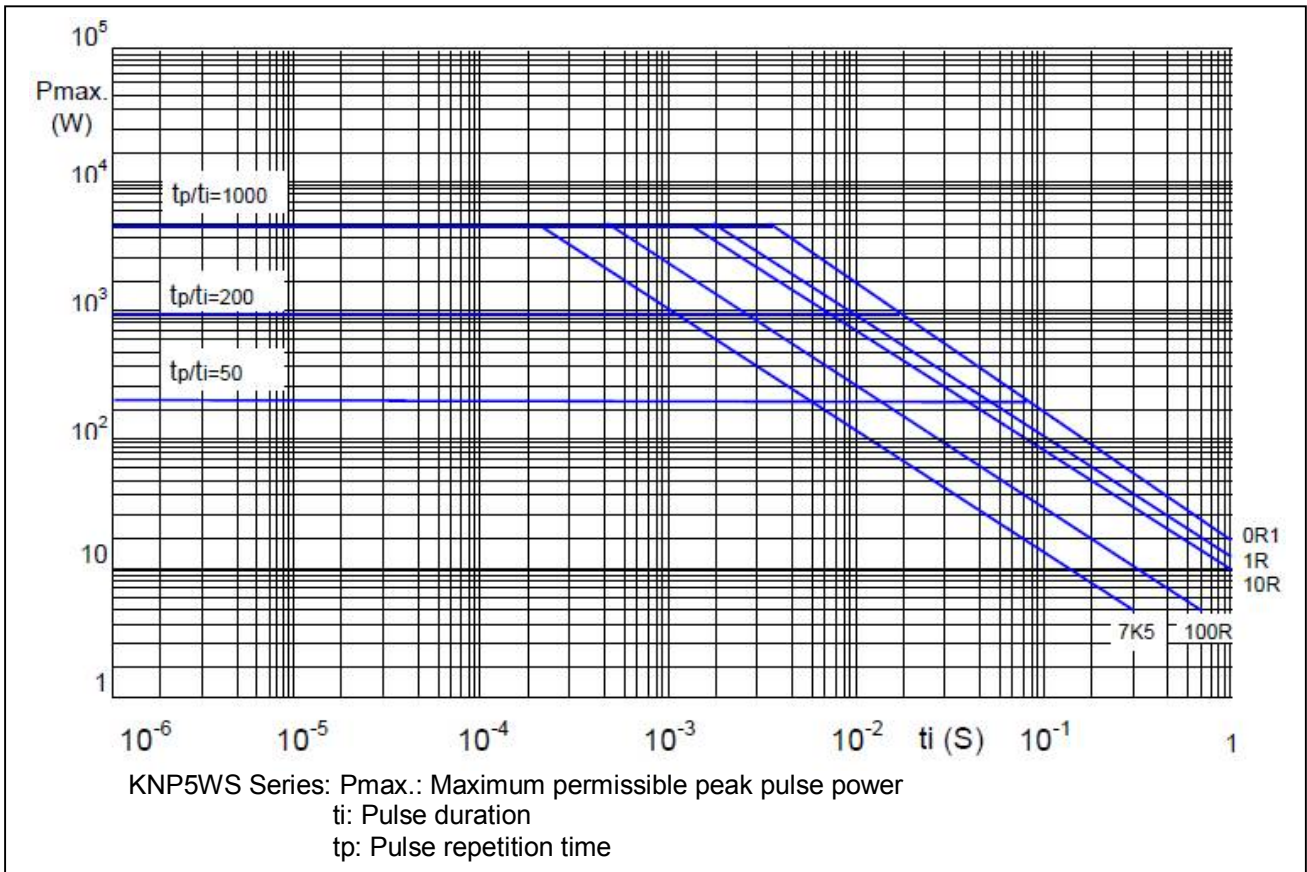
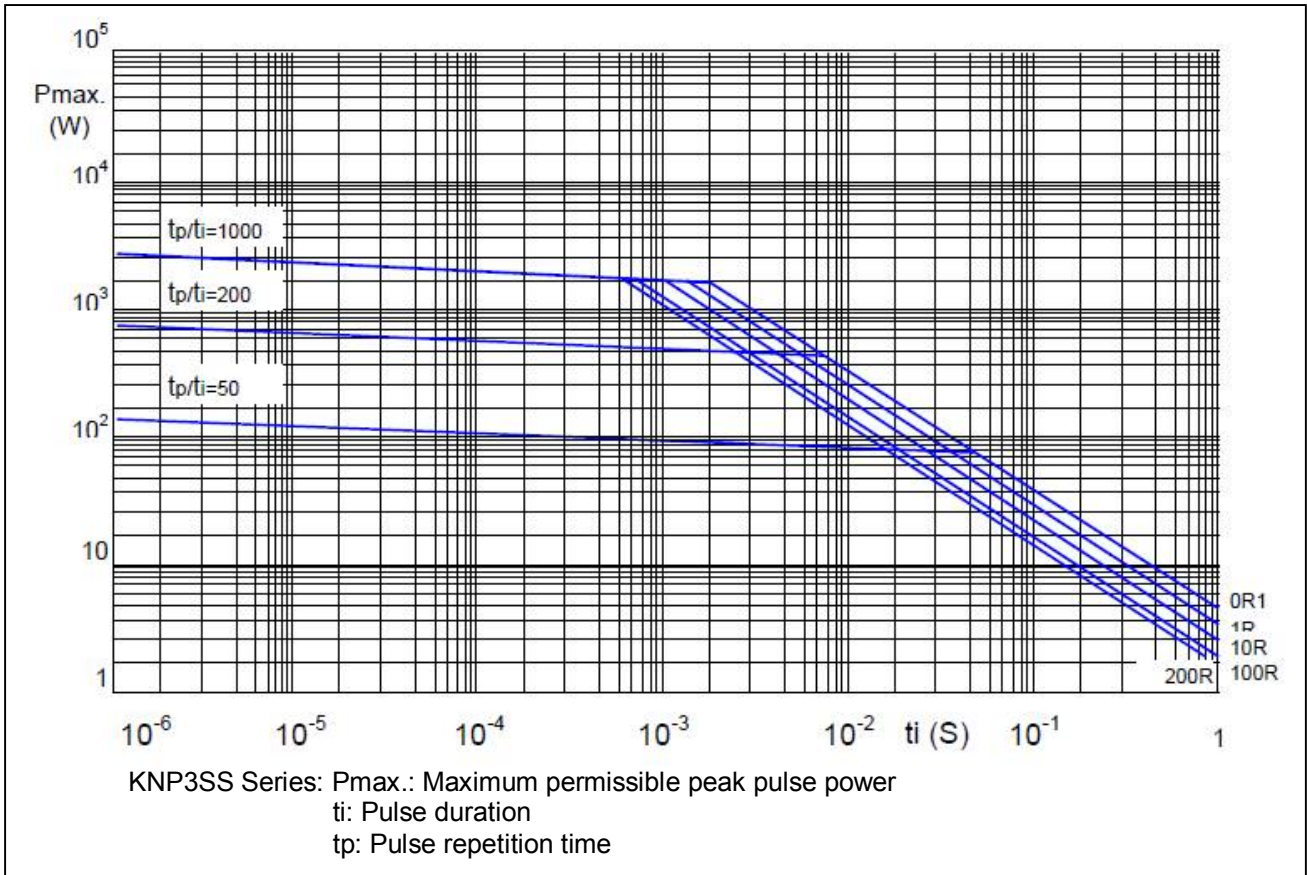
PULSE DIAGRAMS

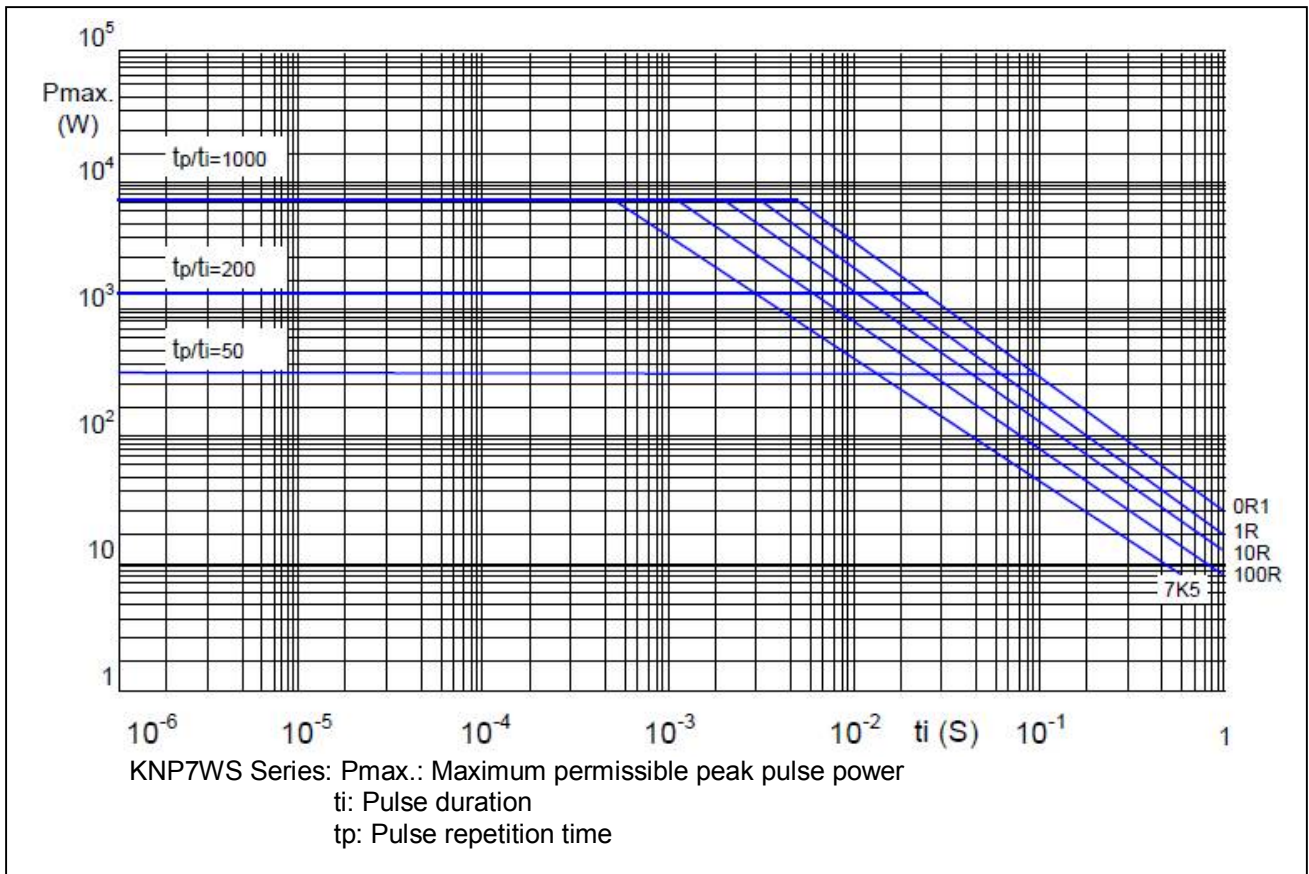




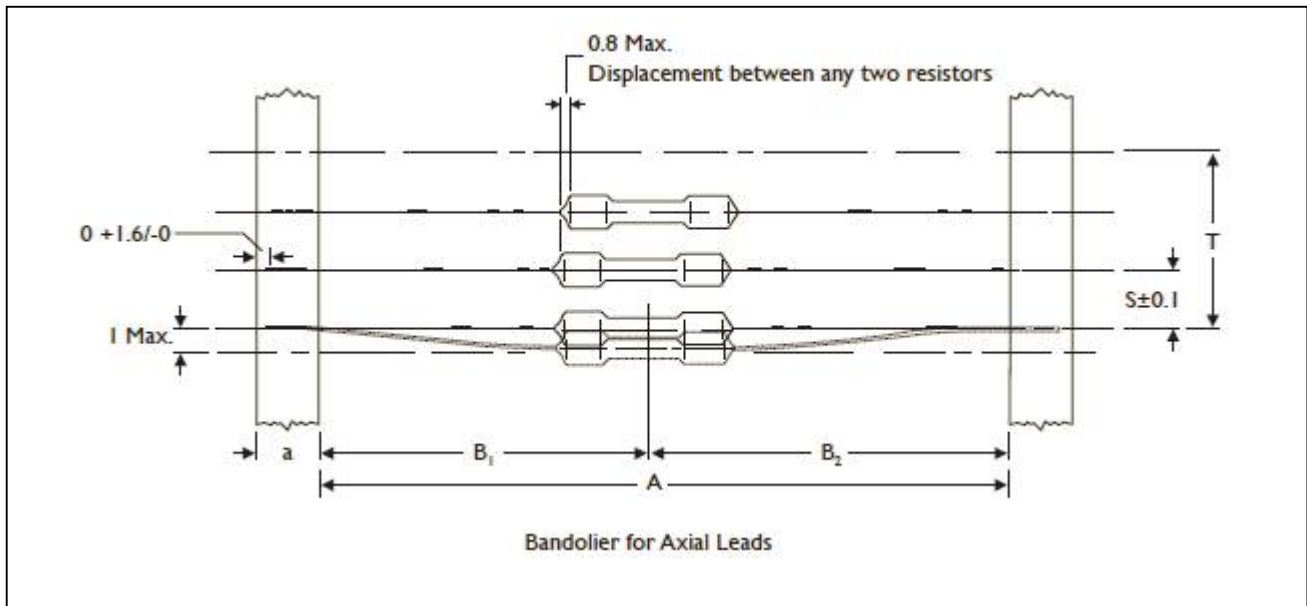








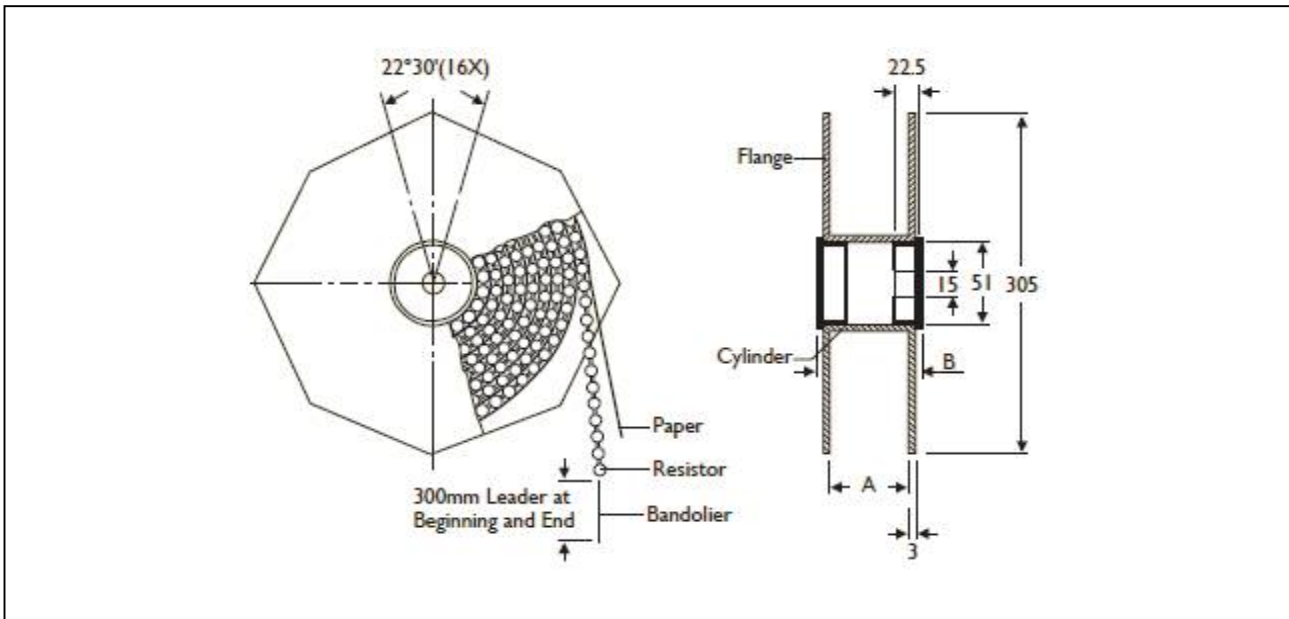
AXIAL / REEL TAPE SPECIFICATION



Unit: mm

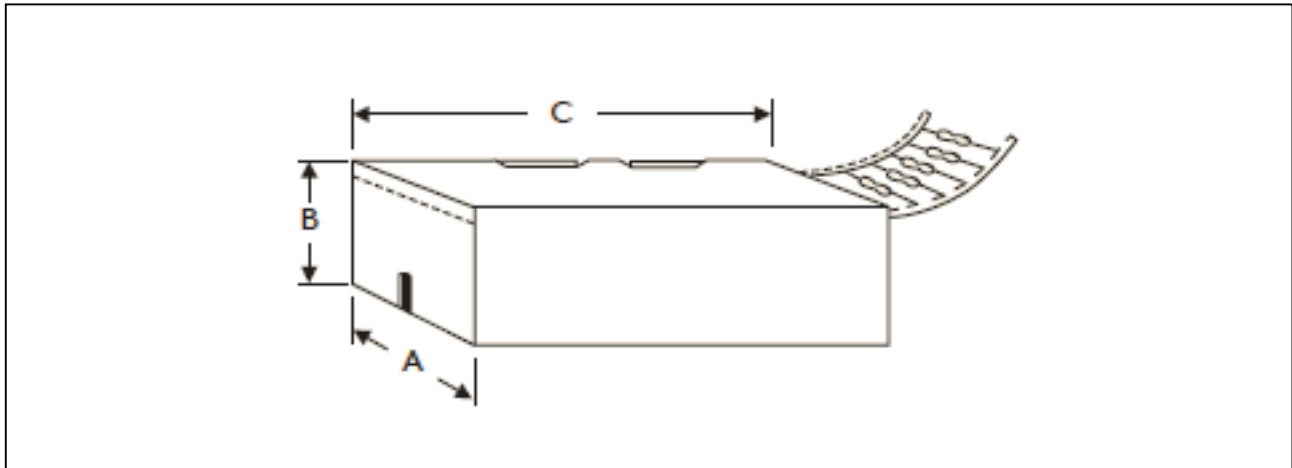
| Normal | Miniature | a | A | B1-B2 (Max.) | S (spacing) | T (max. deviation of spacing) |
|----------------------------|------------------|---------|------------|--------------|-------------|--|
| KNP-25 | KNP50S | 6 ± 0.5 | 52.4 ± 1.5 | 1.2 | 5 | 1 mm per 10 spacing, 0.5 mm per 5 spacing |
| | | | 26.0 ± 1.5 | 1.0 | | |
| KNP-50 | KNP1WS | 6 ± 0.5 | 52.4 ± 1.5 | 1.2 | 5 | |
| KNP100 | KNP2WS KNP3SS | 6 ± 0.5 | 73.0 ± 1.5 | 1.5 | 5 | |
| | | | 52.4 ± 1.5 | 1.2 | | |
| KNP200 KNP300 KNP400 | KNP3WS KNP5WS | 6 ± 0.5 | 73.0 ± 1.5 | 1.5 | 10 | |
| KNP500 KNP600 | KNP7WS | 6 ± 0.5 | 91.0 ± 1.5 | 1.5 | 10 | |
| KNP700 | - | 6 ± 0.5 | 91.0 ± 1.5 | 1.5 | 10 | |

TAPE ON REEL PACKING



| TYPE | | Unit: mm/piece | | |
|--------|------------------|------------------|------|-------------------|
| Normal | Miniature | Across Flange(A) | B | Quantity Per Reel |
| KNP-25 | KNP50S | 66.5 | 75.5 | 5,000 |
| KNP-50 | KNP1WS | 66.5 | 75.5 | 2,500 |
| KNP100 | KNP2WS KNP3SS | 87 | 96 | 2,000 |
| KNP200 | KNP3WS | 87 | 96 | 1,000 |
| KNP300 | KNP5WS | 87 | 96 | 1,000 |
| KNP400 | | | | |

TAPE ON BOX PACKING



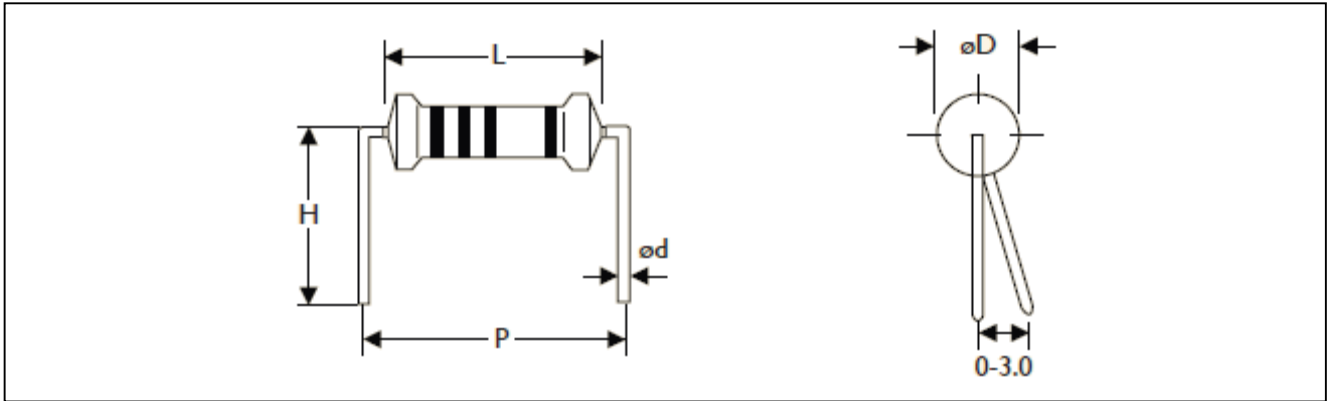
| TYPE | | DIMENSIONS | | | Unit: mm/piece |
|------------------|------------------|------------|-----|-----|------------------|
| Normal | Miniature | A | B | C | Quantity Per Box |
| KNP-25 | KNP50S | 48 | 102 | 255 | 5,000 |
| KNP-25 | KNP50S | 81 | 104 | 260 | 5,000 |
| KNP-50 | KNP1WS | 73 | 45 | 258 | 1,000 |
| KNP100 | KNP2WS KNP3SS | 81 | 91 | 260 | 1,000 |
| KNP100 | KNP2WS KNP3SS | 103 | 78 | 260 | 1,000 |
| KNP200 | KNP3WS | 81 | 91 | 260 | 1,000 |
| KNP200 | KNP3WS | 103 | 94 | 260 | 1,000 |
| KNP300 KNP400 | KNP5WS | 81 | 91 | 260 | 500 |
| KNP300 KNP400 | KNP5WS | 103 | 78 | 260 | 500 |
| KNP500 KNP600 | KNP7WS | 116 | 79 | 255 | 250 |
| KNP700 | - | 116 | 79 | 255 | 250 |

BULK PACKING

| Normal | Miniature | Piece/Per Inner Box | Bag/Per Inner Box | Piece Per Bag |
|------------------|------------------|---------------------|-------------------|---------------|
| KNP-25 | KNP50S | 10,000 | 10 | 1,000 |
| KNP-50 | KNP1WS | 5,000 | 5 | 1,000 |
| KNP100 | KNP2WS KNP3SS | 2,000 | 4 | 500 |
| KNP200 | KNP3WS | 1,000 | 2 | 500 |
| KNP300 KNP400 | KNP5WS | 1,000 | 2 | 500 |
| KNP500 KNP600 | KNP7WS | 500 | 10 | 50 |
| KNP700 | - | 500 | 10 | 50 |

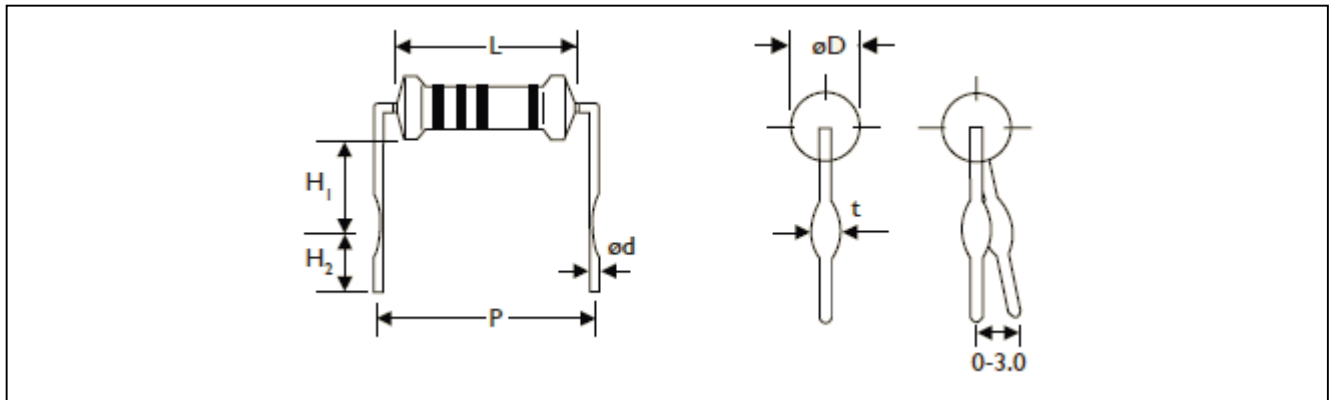
FORMING

M TYPE



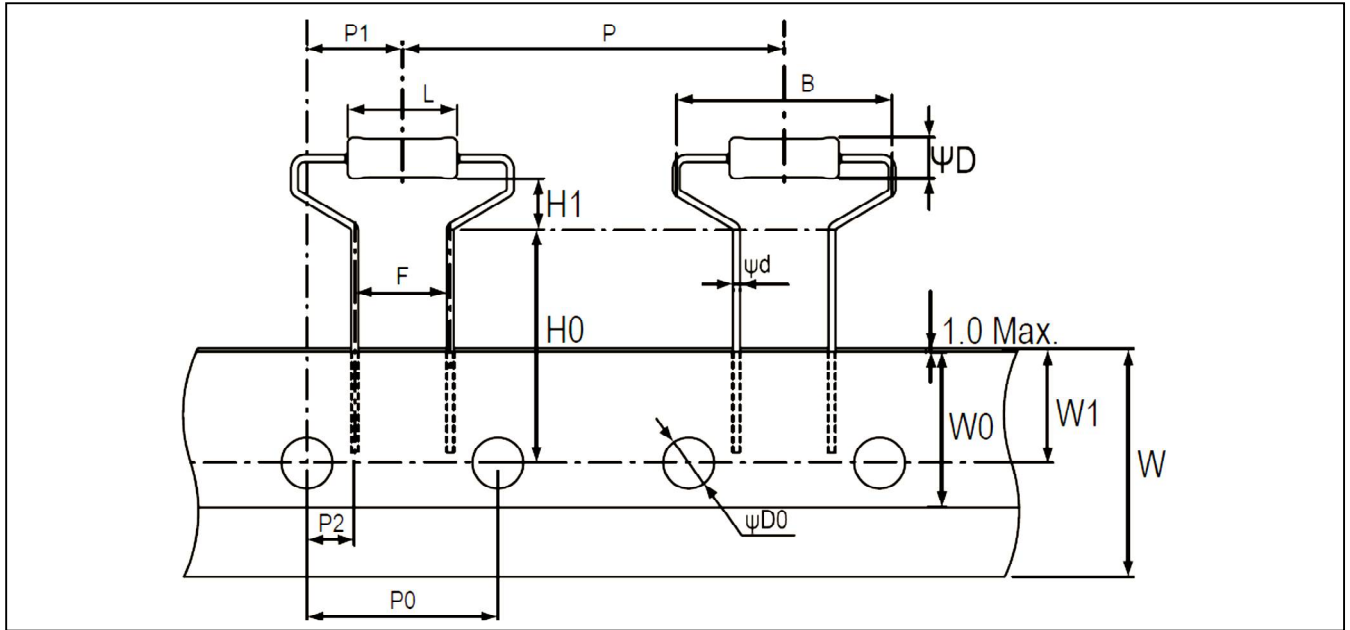
| TYPE | | DIMENSIONS | | | | | Unit: mm |
|------------------|------------------|------------|-----------|-------------|----------|----------|----------|
| Normal | Miniature | L | ψD | ψd | P | H | |
| KNP-25 | KNP50S | 6.3 ± 0.5 | 2.5 ± 0.3 | 0.55 ± 0.05 | 10.0 ± 1 | 10.0 ± 1 | |
| KNP-50 | KNP1WS | 9.0 ± 0.5 | 3.5 ± 0.3 | 0.55 ± 0.05 | 12.5 ± 1 | 10.0 ± 1 | |
| KNP100 | KNP2WS KNP3SS | 11.5 ± 1.0 | 4.6 ± 0.5 | 0.8 ± 0.05 | 15.0 ± 1 | 12.5 ± 1 | |
| KNP200 | KNP3WS | 15.5 ± 1.0 | 5.2 ± 0.5 | 0.8 ± 0.05 | 20.0 ± 1 | 15.0 ± 1 | |
| KNP300 KNP400 | KNP5WS | 17.5 ± 1.0 | 6.2 ± 0.5 | 0.8 ± 0.05 | 25.0 ± 1 | 15.0 ± 1 | |
| KNP500 KNP600 | KNP7WS | 24.5 ± 1.0 | 8.2 ± 0.5 | 0.8 ± 0.05 | 30.0 ± 1 | 15.0 ± 1 | |

MB TYPE



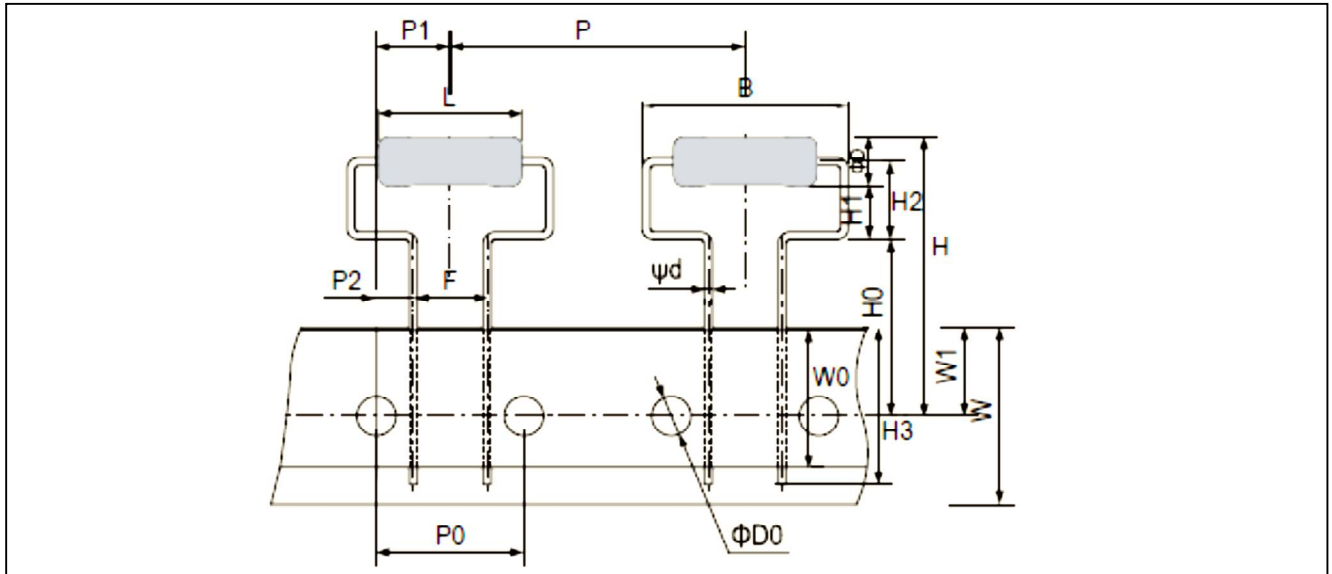
| TYPE | | DIMENSIONS | | | | | | | Unit: mm |
|------------------|------------------|----------------|---------------|-----------------|--------------|--------------|-------------|---------------|----------|
| Normal | Miniature | L | ψD | ψd | P | H1 | H2 | t | |
| KNP-25 | KNP50S | 6.3 ± 0.5 | 2.5 ± 0.3 | 0.55 ± 0.05 | 10.0 ± 1 | 6.0 ± 1 | 5.0 ± 1 | 1.2 ± 0.2 | |
| KNP-50 | - | 9.0 ± 0.5 | 3.5 ± 0.3 | 0.55 ± 0.05 | 12.5 ± 1 | 6.0 ± 1 | 5.0 ± 1 | 1.2 ± 0.2 | |
| - | KNP1WS | 9.0 ± 0.5 | 3.5 ± 0.3 | 0.8 ± 0.05 | 12.5 ± 1 | 6.0 ± 1 | 5.0 ± 1 | 1.4 ± 0.2 | |
| KNP100 | KNP2WS KNP3SS | 11.5 ± 1.0 | 4.6 ± 0.5 | 0.8 ± 0.05 | 15.0 ± 1 | 6.0 ± 1 | 5.0 ± 1 | 1.4 ± 0.2 | |
| KNP200 | KNP3WS | 15.5 ± 1.0 | 5.2 ± 0.5 | 0.8 ± 0.05 | 20.0 ± 1 | 10.0 ± 1 | 5.0 ± 1 | 1.4 ± 0.2 | |
| KNP300 KNP400 | KNP5WS | 17.5 ± 1.0 | 6.2 ± 0.5 | 0.8 ± 0.05 | 30.0 ± 1 | 15.0 ± 1 | 5.0 ± 1 | 1.4 ± 0.2 | |
| KNP500 KNP600 | KNP7WS | 24.5 ± 1.0 | 8.2 ± 0.5 | 0.8 ± 0.05 | 30.0 ± 1 | 15.0 ± 1 | 5.0 ± 1 | 1.4 ± 0.2 | |

MHA TYPE



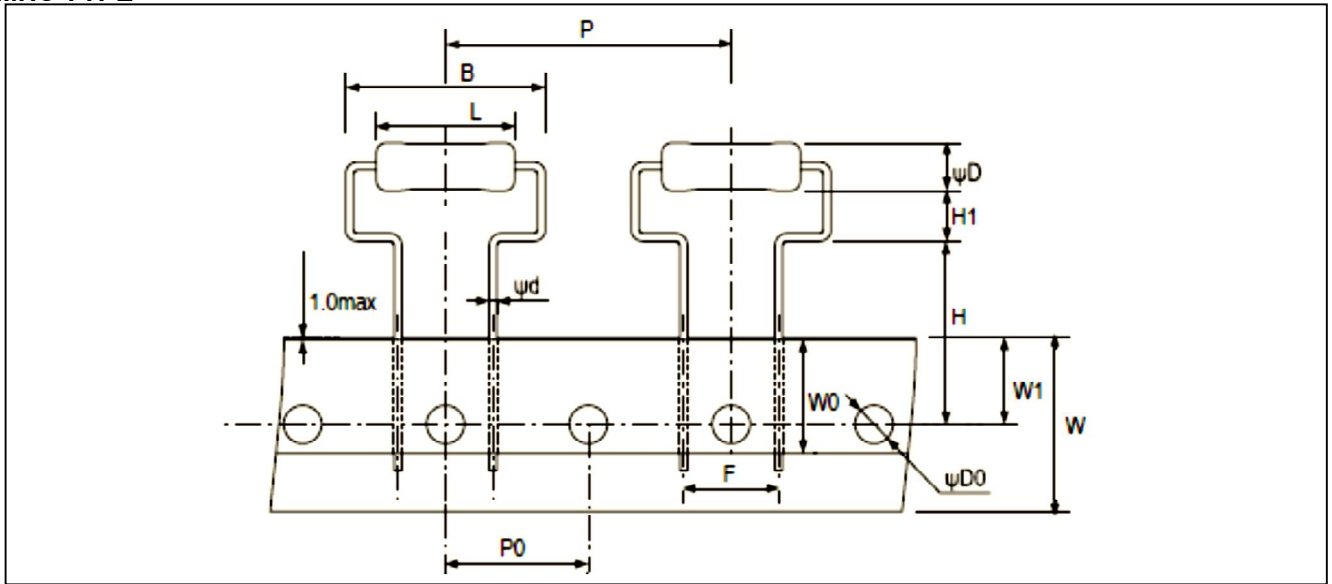
| TYPE | | DIMENSIONS | | | | | | | | Unit: mm |
|---------------|------------------|------------|-----------|-----------|----------|-----------|-----------|------------|-----------|----------|
| Normal | Miniature | L | ψD | ψd | B | H0 | H1 | P | P0 | |
| | | 9.0±0.5 | 3.5±0.3 | 0.55±0.05 | 17.5Max | 19.0±1.0 | 4.0±1.0 | 30.0±1.0 | 15.0±0.3 | |
| KNP-50 | KNP1WS | P1 | P2 | F | W | W0 | W1 | ψD0 | | |
| | | 7.5±1.0 | 3.75±0.5 | 7.5±0.5 | 18.0±0.5 | 5.0Min | 9.0±0.5 | 4.0±0.2 | | |

MHB TYPE



| TYPE | | DIMENSIONS | | | | | | | | | Unit: mm |
|---------------|------------------|------------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|----------|
| Normal | Miniature | L | ψD | ψd | B | H | H0 | H1 | H2 | H3 | |
| | | 15.5±1.0 | 5.2±0.5 | 0.8±0.05 | 21.0Max. | 30Max. | 18.0±1.0 | 5.5(Ref.) | 8.0±1.5 | 16Max. | |
| KNP200 | KNP3WS | P | P0 | P1 | P2 | F | W | W0 | W1 | ψD0 | |
| | | 30.0±1.0 | 15.0±0.3 | 7.5±1.0 | 3.75±0.8 | 7.5±0.5 | 18.0±0.5 | 5.0Min. | 9.0±0.5 | 4.0±0.3 | |

MHC TYPE



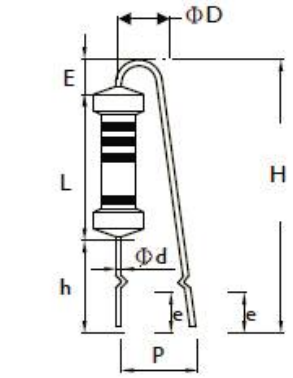
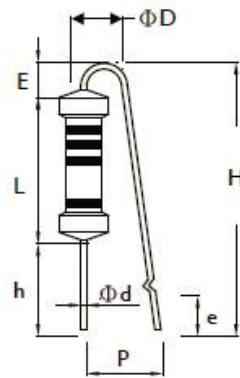
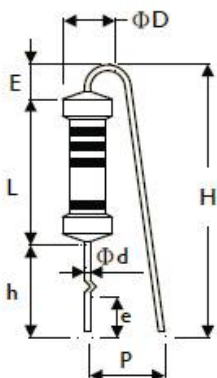
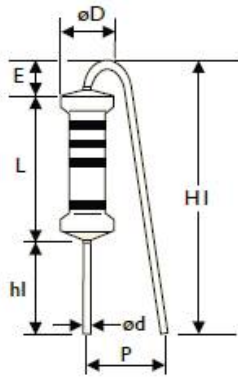
| TYPE | | DIMENSIONS | | | | | | | | Unit: mm |
|---------------|------------------|------------|-----------|-----------|-----------|------------|-----------|----------|-----------|----------|
| Normal | Miniature | L | ψD | ψd | B | H | H1 | P | P0 | |
| | | 15.5±1.0 | 5.2±0.5 | 0.8±0.05 | 21.0Max. | 19.0±1.0 | 5.25±1.0 | 30.0±1.0 | 15.0±0.3 | |
| KNP200 | KNP3WS | F | W | W0 | W1 | ψD0 | | | | |
| | | 10.0±0.5 | 18.0±0.5 | 5.0Min. | 9.0±0.5 | 4.0±0.2 | | | | |

F TYPE

FK TYPE

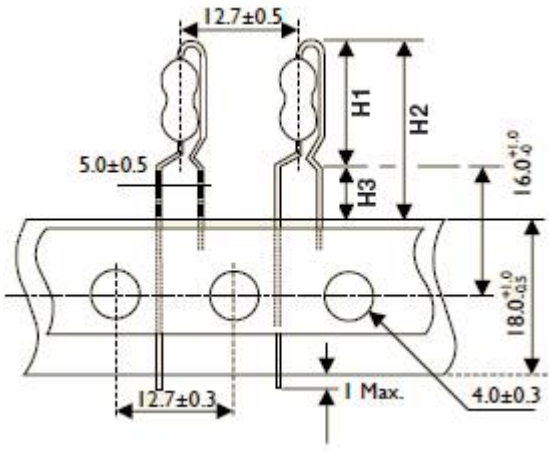
FFK TYPE

FKK TYPE

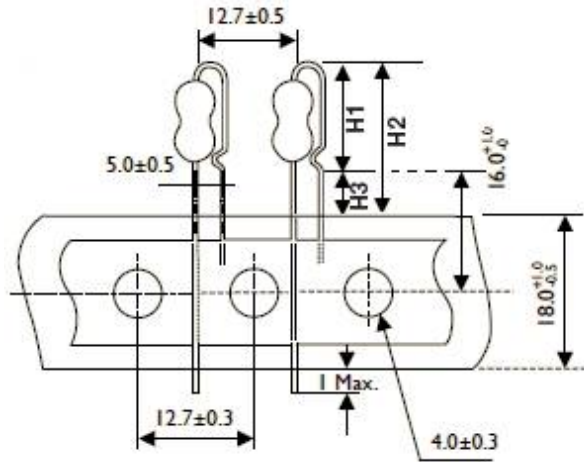


| TYPE | | DIMENSIONS | | | | | | | | | | | Unit: mm |
|---------------|------------------|------------|-----------|-----------|----------|----------|-------------------------|-----------|--------------------------|-------------------------|----------|--|----------|
| Normal | Miniature | L | ψD | ψd | P | h | H Max. | h1 | H1 Max. | E Max. | e | | |
| KNP-50 | KNP1WS | 9.0±0.5 | 3.5±0.3 | 0.55±0.05 | 6±1 | 8±1 | 22 | 5±1 | 18.5 | 3.5 | 3.5±1 | | |
| KNP100 | KNP2WS | 11.5±1 | 4.6±0.5 | 0.8±0.05 | 6±1 | 8±1 | 24 | 5±1 | 20 | 3.5 | 3.5±1 | | |
| KNP200 | KNP3WS | 15.5±1 | 5.2±0.5 | 0.8±0.05 | 8±1 | 8±1 | 28 | 5±1 | 25 | 3.5 | 3.5±1 | | |

PN TYPE (Taping Pack)



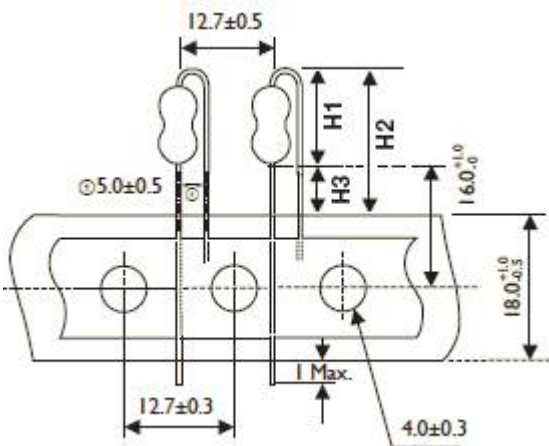
AV TYPE (Taping Pac)



| TYPE | | DIMENSIONS | | | Unit: mm |
|--------|------------------|------------|---------|---------|----------|
| Normal | Miniature | H1 Max. | H2 Max. | H3 Max. | |
| KNP-25 | KNP50S | 13 | 21.5 | 8.5 | |
| KNP-50 | KNP1WS | 17 | 25.5 | 8.5 | |
| KNP100 | KNP2WS KNP3SS | 19 | 27.5 | 8.5 | |

| TYPE | | DIMENSIONS | | | Unit: mm |
|--------|------------------|------------|---------|---------|----------|
| Normal | Miniature | H1 Max. | H2 Max. | H3 Max. | |
| KNP-25 | KNP50S | 11.5 | 20 | 8.5 | |
| KNP-50 | KNP1WS | 14.5 | 23 | 8.5 | |
| KNP100 | KNP2WS KNP3SS | 17.5 | 26 | 8.5 | |

FT TYPE (Taping Pack)



| TYPE | | DIMENSIONS | | | Unit: mm |
|--------|------------------|------------|---------|---------|----------|
| Normal | Miniature | H1 Max. | H2 Max. | H3 Max. | |
| KNP-25 | KNP50S | 10 | 18.5 | 8.5 | |
| KNP-50 | KNP1WS | 13 | 21.5 | 8.5 | |
| KNP100 | KNP2WS KNP3SS | 16 | 24.5 | 8.5 | |

MARKING



| COLOR | 1st BAND | 2nd BAND | 3rd BAND | MULTIPLIER | TOLERANCE |
|--------|----------|----------|----------|------------|------------|
| BLACK | 0 | 0 | 0 | 1Ω | |
| BROWN | 1 | 1 | 1 | 10Ω | ± 1% (F) |
| RED | 2 | 2 | 2 | 100Ω | ± 2% (G) |
| ORANGE | 3 | 3 | 3 | 1KΩ | |
| YELLOW | 4 | 4 | 4 | 10KΩ | |
| GREEN | 5 | 5 | 5 | 100K | |
| BLUE | 6 | 6 | 6 | 1MΩ | |
| VIOLET | 7 | 7 | 7 | 10MΩ | |
| GREY | 8 | 8 | 8 | 0.001Ω | |
| WHITE | 9 | 9 | 9 | 0.0001Ω | |
| GOLD | | | | 0.1Ω | ± 5% (J) |
| SILVER | | | | 0.01Ω | |



REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|--------------|---------------------|-------------------------------------|
| Version 0 | Aug. 2, 2021 | - | - First issue of this specification |

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