# SSTR800-DSS

Stainless Steel Tube Power Resistor

## Product features

- Stainless steel housing facilitates heat conduction.
- External heat dissipation using natural, forced-air or water cooling.
- Metal-alloy resistance element for voltage and current surge capability.
- High-voltage-resistant, thermally conductive oxide fillers.
- Diameter-reduction process improves thermal conduction.
- High power in a compact structure.



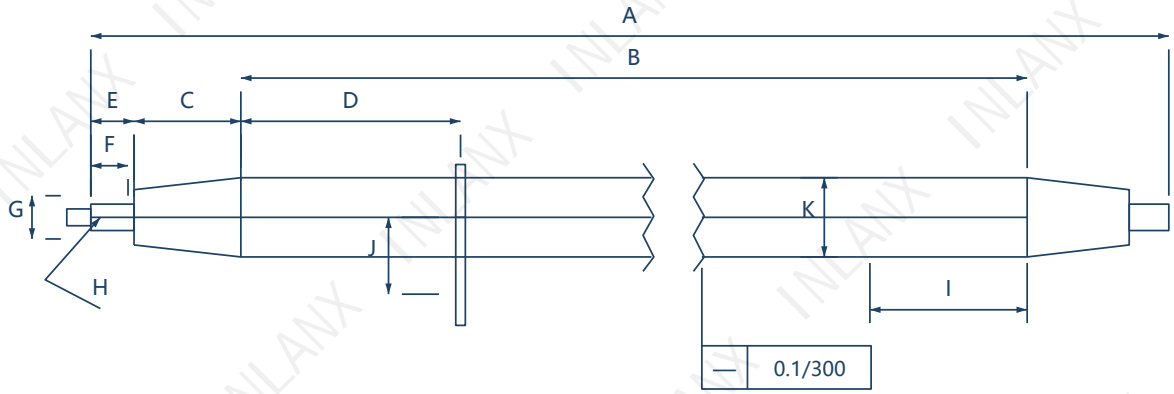
## Performance parameters

| Item | Specification |
|---|---|
| Rated power / condition | 1000 W; heatsink 85°C |
| Resistance range | 5–80 Ω |
| Insulation withstand | 5 kV AC, 50 Hz, 1 min |
| Overload / condition | 2000 W, 20 s |
| Weight | 300 g |
| Heat-transfer surface roughness | ≤6.3 μS (source unit) |

## Applications

Stainless steel tube power resistor for load, damping, charge/discharge and absorption circuits in high-power and high-voltage DC transmission equipment.

## Overall dimensions (mm)




| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 350 +1/-2 | 278±3 | 25±1 | 20±1 | 11±1 | 8 | φ10 | M5 | ≥25 | 18 | φ16 +0/-0.03 |

## Installation and heat dissipation

No soldering iron required. Insert into a φ16 mm heatsink bore and secure using M6 screws; matched heatsinks available by agreement.

# SSTR1000-A

Stainless Steel Tube Power Resistor

## Product features

- Stainless steel housing facilitates heat conduction.
- External heat dissipation using natural, forced-air or water cooling.
- Metal-alloy resistance element for voltage and current surge capability.
- High-voltage-resistant, thermally conductive oxide fillers.
- Diameter-reduction process improves thermal conduction.
- High power in a compact structure.



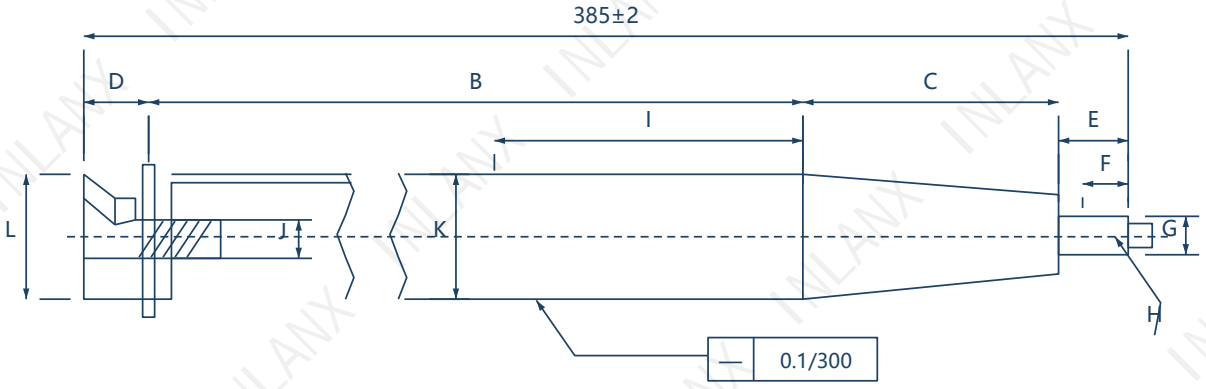
## Performance parameters

| Item | Specification |
|---|---|
| Rated power / condition | 1000 W; heatsink 85°C |
| Resistance range | 5–100 Ω |
| Insulation withstand | 6 kV AC, 50 Hz, 1 min |
| Overload / condition | 2000 W, 20 s |
| Weight | 443 g |
| Heat-transfer surface roughness | ≤6.3 μm |

## Applications

Stainless steel tube power resistor for load, damping, charge/discharge and absorption circuits in high-power and high-voltage DC transmission equipment.

## Overall dimensions (mm)




| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 385±2 | 320±2 | 40±2 | 14 | 11±1 | 8 | φ10 | M5 | ≥45 | 20 | φ17.95 +0/-0.03 |

## Installation and heat dissipation

No soldering iron required. Insert into a φ18 mm heatsink bore and secure using M6 screws; matched heatsinks available by agreement.

# SSTR1000-DS

Stainless Steel Tube Power Resistor

## Product features

- Stainless steel housing facilitates heat conduction.
- External heat dissipation using natural, forced-air or water cooling.
- Metal-alloy resistance element for voltage and current surge capability.
- High-voltage-resistant, thermally conductive oxide fillers.
- Diameter-reduction process improves thermal conduction.
- High power in a compact structure.



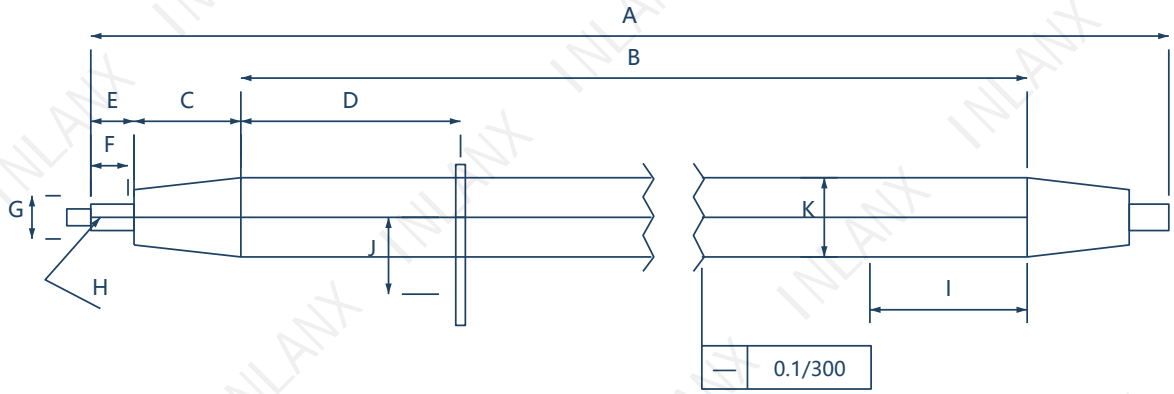
## Performance parameters

| Item | Specification |
|---|---|
| Rated power / condition | 1000 W; heatsink 85°C |
| Resistance range | 5–80 Ω |
| Insulation withstand | 5 kV AC, 50 Hz, 1 min |
| Overload / condition | 2000 W, 20 s |
| Weight | 376 g |
| Heat-transfer surface roughness | ≤6.3 μS (source unit) |

## Applications

Stainless steel tube power resistor for load, damping, charge/discharge and absorption circuits in high-power and high-voltage DC transmission equipment.

## Overall dimensions (mm)




| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 452 +1/-3 | 350±4 | 41±2 | 30±1 | 11±1 | 8 | φ10 | M5 | ≥45 | 18 | φ16 +0/-0.03 |

## Installation and heat dissipation

No soldering iron required. Insert into a φ16 mm heatsink bore and secure using M6 screws; matched heatsinks available by agreement.

# SSTR1000-S

Stainless Steel Tube Power Resistor

## Product features

- Stainless steel housing facilitates heat conduction.
- External heat dissipation using natural, forced-air or water cooling.
- Metal-alloy resistance element for voltage and current surge capability.
- High-voltage-resistant, thermally conductive oxide fillers.
- Diameter-reduction process improves thermal conduction.
- High power in a compact structure.



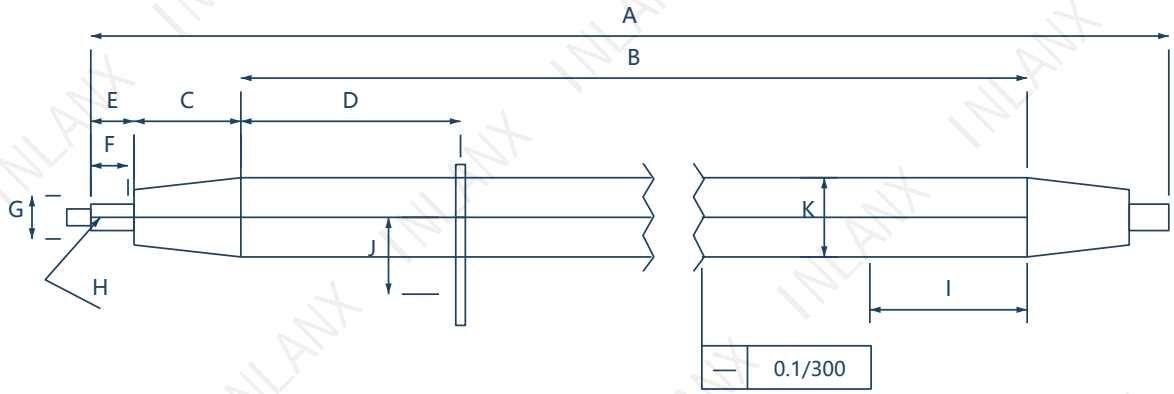
## Performance parameters

| Item | Specification |
|---|---|
| Rated power / condition | 1000 W; heatsink 85°C |
| Resistance range | 5–100 Ω |
| Insulation withstand | 6 kV AC, 50 Hz, 1 min |
| Overload / condition | 2000 W, 20 s |
| Weight | 446 g |
| Heat-transfer surface roughness | ≤6.3 μm |

## Applications

Stainless steel tube power resistor for load, damping, charge/discharge and absorption circuits in high-power and high-voltage DC transmission equipment.

## Overall dimensions (mm)




| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 452 +1/-3 | 350±4 | 40±1 | 30±1 | 11±1 | 8 | φ10 | M5 | ≥45 | 20 | φ17.95 +0/-0.03 |

## Installation and heat dissipation

No soldering iron required. Insert into a φ18 mm heatsink bore and secure using M6 screws; matched heatsinks available by agreement.

# SSTR1000

Stainless Steel Tube Power Resistor

## Product features

- Stainless steel housing facilitates heat conduction.
- External heat dissipation using natural, forced-air or water cooling.
- Metal-alloy resistance element for voltage and current surge capability.
- High-voltage-resistant, thermally conductive oxide fillers.
- Diameter-reduction process improves thermal conduction.
- High power in a compact structure.



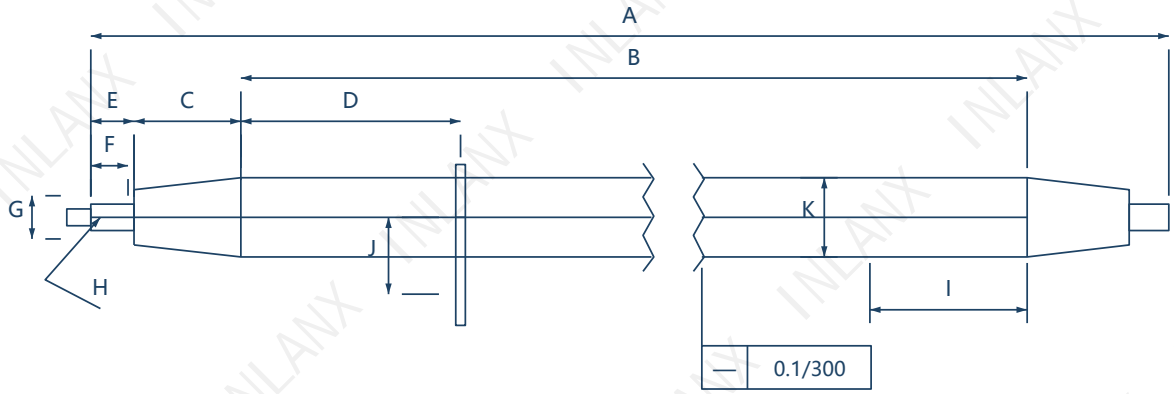
## Performance parameters

| Item | Specification |
|---|---|
| Rated power / condition | 1000 W; heatsink 85°C |
| Resistance range | 5–80 Ω |
| Insulation withstand | 5 kV AC, 50 Hz, 1 min |
| Overload / condition | 200 V, 20 s (source entry) |
| Weight | 579 g |
| Heat-transfer surface roughness | ≤6.3 μm |

## Applications

Stainless steel tube power resistor for load, damping, charge/discharge and absorption circuits in high-power and high-voltage DC transmission equipment.

## Overall dimensions (mm)




| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 452 +1/-3 | 350±4 | 40±1 | 30±1 | 11±1 | 8 | φ10 | M5 | ≥45 | 20.5 | φ20.7 +0/-0.03 |

## Installation and heat dissipation

No soldering iron required. Insert into a φ20.8 mm heatsink bore and secure using M6 screws; matched heatsinks available by agreement.

# SSTR9000

Stainless Steel Tube Power Resistor

## Product features

- Stainless steel housing facilitates heat conduction.
- External heat dissipation using natural, forced-air or water cooling.
- Metal-alloy resistance element for voltage and current surge capability.
- High-voltage-resistant, thermally conductive oxide fillers.
- Diameter-reduction process improves thermal conduction.
- High power and high voltage.



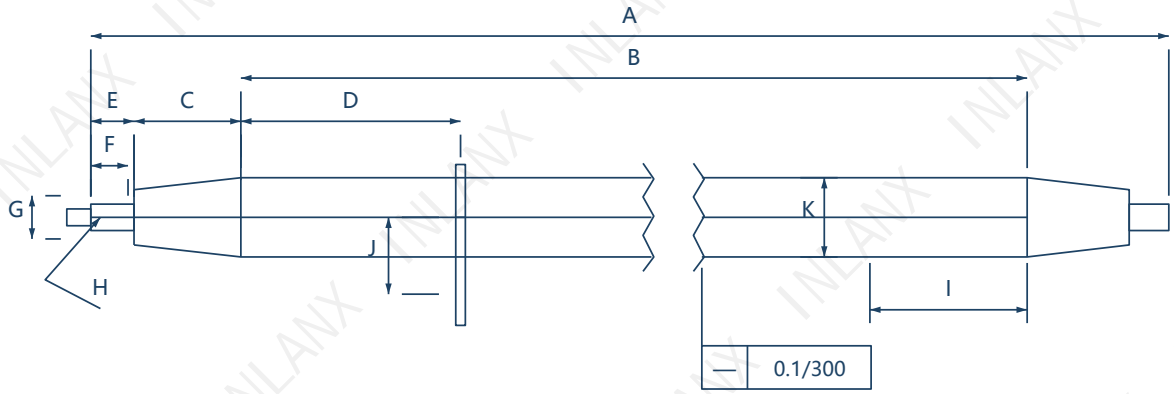
## Performance parameters

| Item | Specification |
|---|---|
| Rated power / condition | 9000 W; heatsink 85°C |
| Resistance range | 50–300 Ω |
| Insulation withstand | 20 kV AC |
| Overload / condition | 18000 W, 20 s |
| Weight | 2300 g |
| Heat-transfer surface roughness | ≤6.3 μS (source unit) |

## Applications

Stainless steel tube power resistor for load, damping, charge/discharge and absorption circuits in high-power and high-voltage DC transmission equipment.

## Overall dimensions (mm)




| A | B | C | D | E | F | G | H | I | K |
|---|---|---|---|---|---|---|---|---|---|
| 1148±2 | 1000±5 | 60±1 | 14±1 | 12 | 8 | φ10 | M5 | ≥80 | φ26 +0/-0.03 |

## Installation and heat dissipation

No soldering iron required. Insert and secure in a custom water tank; matching tanks available by agreement.

# SSTR SERIES

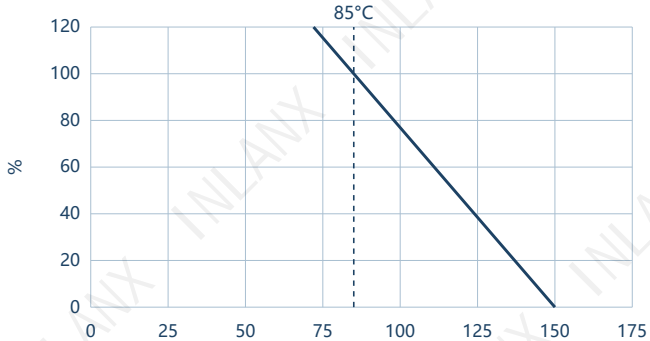
Common specifications, reference curves and source notes

## Common electrical and thermal specifications

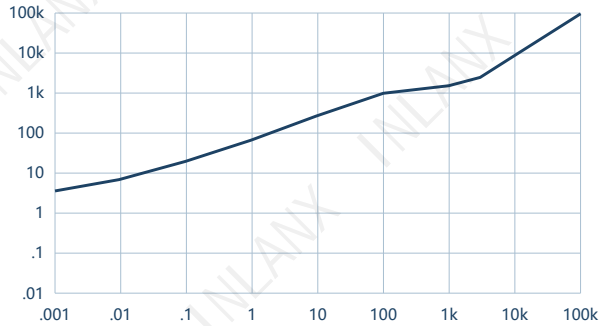
| Item | Specification |
|---|---|
| Tolerance | ±2%(G), ±5%(J), ±10%(K) |
| Insulation resistance | >500 MΩ |
| L/R time constant | ≤0.3 μs |
| Peak current / conditions | 70 A; 50 Hz; 100 μs |
| Temperature coefficient | ≤100 ppm/°C |
| Heatsink fitting gap | ≤0.05 mm |
| Maximum static torque | 2 N·m |
| Thermal impedance | 0.15°C/W |

## Reference curves

Power / temperature curve




Pulse reference curve




Curves redrawn from the source; only the relative-power axis is retained. Pulse axis units and full pulse conditions are unspecified. All source pulse curves are labelled SSTR1000.

## Source information retained

- SSTR800-DSS: the source model is SSTR800-DSS while its rated-power entry is 1000 W. Both are retained.
- SSTR1000: the source overload entry reads “200 V, 20 s”; no power value has been inferred.
- SSTR1000-DS, SSTR800-DSS and SSTR9000: the source roughness unit μS is retained.

Source test reference: Q/HLF01-2002.

Model pages: SSTR800-DSS 1 | SSTR1000-A 2 | SSTR1000-DS 3 | SSTR1000-S 4 | SSTR1000 5 | SSTR9000 6