

## HS-Series High Voltage Resistors, axial leaded

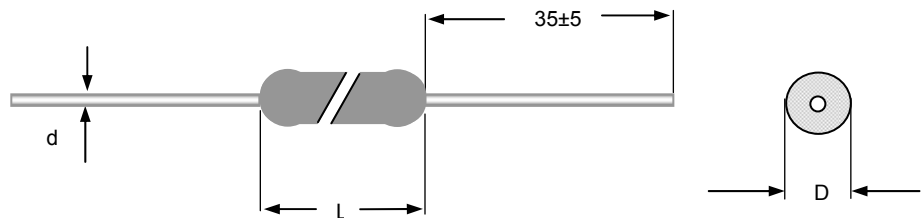
Sizes: HS 15 ... HS 152 (15mm ... 152mm / 0.6" ... 6")

### Features:

- High voltage and high frequency applications
- High stability at overload and environmental tests
- Resin coated with printed value
- Continuous operating temperature up to 195°C; short term up to 225°C

### Dimensions:

(values see following table)



### Technical data – depending on size:

Type <sup>1)</sup>	Power P <sub>25</sub> (W)	Voltage (kV) <sup>2)</sup>		Resistance Range		Dimensions (mm)		
		max. cont. operating	Impulse (1.2/50)	Standard	extended	L	D	d
HS15	0.2	2.0	4.0	100k ... 500M	UR series HTE series	15 <sup>±1.5</sup> (0.6")	5.0 <sup>±1.5</sup>	0.8
HS19	0.3	2.5	5.0	100k ... 500M	UR series HTE series	19 <sup>±1.5</sup> (0.75")	5.0 <sup>±1.5</sup>	0.8
HS25	0.5	4.5	9.0	100k ... 500M	UR series HTE series	25.4 <sup>±1.5</sup> (1")	5.0 <sup>±1.5</sup>	0.8
HS24	1.5	4.0	8.0	100k ... 500M	UR series HTE series	24 <sup>±1.5</sup> (1")	8.0 <sup>±1</sup>	1.0
HS39	2.5	10.0	20.0	100k ... 1G	UR series HTE series	39 <sup>±1.5</sup> (1.5")	8.0 <sup>±1</sup>	1.0
HS52	3.0	15.0	30.0	100k ... 1G	UR series and HTE series	52 <sup>±1.5</sup> (2")	8.0 <sup>±1</sup>	1.0
HS76	4.5	22.5	40.0	1M ... 1G	up to 10T and HTE series	76 <sup>±2</sup> (3")	8.0 <sup>±1</sup>	1.0
HS102	6.0	32.0	50.0	1M ... 1G	up to 10T and HTE series	102 <sup>±2</sup> (4")	9.0 <sup>±1</sup>	1.0
HS127	7.5	37.0	65.0	1M ... 1G	up to 10T and HTE series	127 <sup>±2</sup> (5")	9.0 <sup>±1</sup>	1.0
HS152	9.0	48.0	77.0	1M ... 1G	up to 10T and HTE series	152 <sup>±2</sup> (6")	9.0 <sup>±1</sup>	1.0

<sup>1)</sup> Other sizes (intermediate) available on request

<sup>2)</sup> Voltage restricted by rated power:  $U = \sqrt{P \cdot R}$

## HS-Series

### High Voltage Resistors, axial leaded

Sizes: HS 15 ... HS 152 (15mm ... 152mm / 0.6" ... 6")

#### Technical data - general:

Tolerances	0.5%, 1%, 2%, 5%
Temperature coefficient	Standard: 100 ppm/K Special: 20; 35; 50; 60; 75 ppm/K on request
Temperature range	-55°C ... +195°C
Insulation resistance	> 10GΩ
Overload test (5x rated power / 1.5x operating voltage / 5sec)	$\Delta R < \pm 0.25\%$
Load life (1000h @ rated power)	$\Delta R < \pm 0.25\%$
Moisture resistance (Mil-Std-202, Method 106, Cond. C)	$\Delta R < \pm 0.25\%$
Derating	100% @ 25°C linear down to 0% @ 225°C
Technology	Thick film
Conformal Coating	Epoxy

#### Ordering data:

Type – value – tolerance – TCR