

## Wirewound Resistors, Industrial Power, Silicone Coated, Adjustable Tubular



### FEATURES

- High temperature silicone coating
- Complete welded construction
- Tight tolerance of 5 % for values above 1  $\Omega$
- Excellent stability in operation (< 3 % change in resistance)
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**  
**GREEN**  
(5-2008)

### STANDARD ELECTRICAL SPECIFICATIONS

| GLOBAL<br>MODEL | HISTORICAL<br>MODEL | POWER RATING<br>$P_{25\text{ }^{\circ}\text{C}}$<br>W | RESISTANCE<br>RANGE<br>$\Omega$<br>$\pm 5\%$ | RESISTANCE<br>RANGE<br>$\Omega$<br>$\pm 10\%$ | WEIGHT<br>(typical)<br>g |
|-----------------|---------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------|--------------------------|
| AST010          | AST-10              | 12                                                    | 1.0 to 10.2K                                 | 1.0 to 10.2K                                  | 6.69                     |
| AST012          | AST-12              | 12                                                    | 1.0 to 10.2K                                 | 1.0 to 10.2K                                  | 6.69                     |
| AST020          | AST-20              | 20                                                    | 1.0 to 18K                                   | 1.0 to 18K                                    | 12.57                    |
| AST20A          | HLA-15              | 15                                                    | 1.0 to 60K                                   | 0.10 to 60K                                   | 8.64                     |
| AST025          | AST-25              | 25                                                    | 1.0 to 23K                                   | 1.0 to 23K                                    | 20.72                    |
| AST25A          | AST-25A             | 30                                                    | 1.0 to 30K                                   | 1.0 to 30K                                    | 20.72                    |
| AST25B          | AST-25B             | 30                                                    | 1.0 to 24K                                   | 1.0 to 24K                                    | 14.25                    |
| AST050          | AST-50              | 50                                                    | 1.0 to 57K                                   | 1.0 to 57K                                    | 42.08                    |
| AST50A          | AST-50A             | 60                                                    | 1.0 to 75K                                   | 1.0 to 75K                                    | 65.64                    |
| AST50B          | AST-50B             | 70                                                    | 1.0 to 84.3K                                 | 1.0 to 84.3K                                  | 64.82                    |
| AST075          | AST-75              | 75                                                    | 1.0 to 85.5K                                 | 1.0 to 85.5K                                  | 106.37                   |
| AST75A          | AST-75A             | 90                                                    | 1.0 to 114K                                  | 1.0 to 114K                                   | 183.82                   |
| AST080          | HLA-80              | 80                                                    | 1.0 to 111K                                  | -                                             | 121.58                   |
| AST100          | AST-100             | 100                                                   | 1.0 to 132K                                  | 1.0 to 132K                                   | 91.37                    |
| AST130          | AST-130             | 130                                                   | 1.0 to 192K                                  | 1.0 to 192K                                   | 192.36                   |
| AST160          | AST-160             | 175                                                   | 1.0 to 398K                                  | 1.0 to 398K                                   | 250.8                    |
| AST175          | HLA-175             | 175                                                   | 1.0 to 398K                                  | -                                             | 250.8                    |
| AST200          | AST-200             | 225                                                   | 1.0 to 337K                                  | 1.0 to 337K                                   | 309.97                   |
| AST225          | AST-225             | 225                                                   | 1.0 to 337K                                  | 1.0 to 337K                                   | 309.97                   |



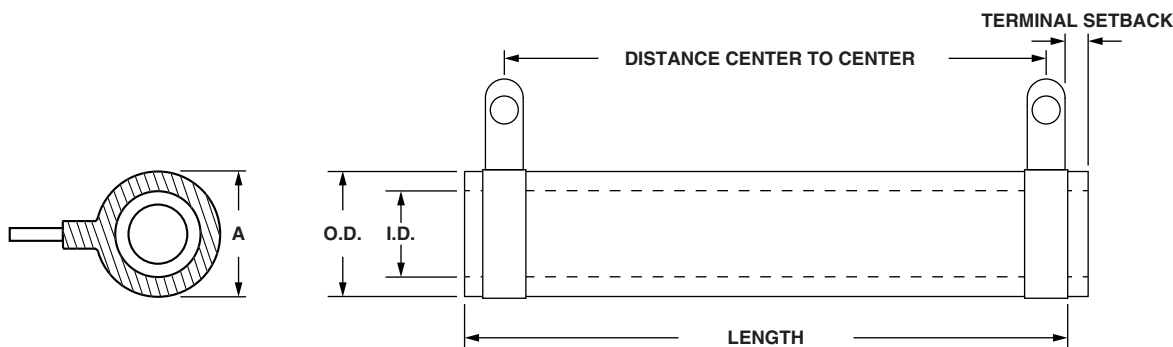
## GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: **AST0250625R00JE** (visit [www.vishay.net](http://www.vishay.net) SAP parts manual for all options)

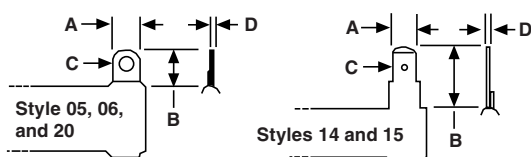
|                                                                          |          |                                                                                          |          |                              |          |                                                                                            |          |                                       |          |                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |          |  |  |
|--------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------|----------|------------------------------|----------|--------------------------------------------------------------------------------------------|----------|---------------------------------------|----------|----------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|--|--|
| <b>A</b>                                                                 | <b>S</b> | <b>T</b>                                                                                 | <b>0</b> | <b>2</b>                     | <b>5</b> | <b>0</b>                                                                                   | <b>6</b> | <b>E</b>                              | <b>2</b> | <b>5</b>                                     | <b>R</b> | <b>0</b>                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>0</b> | <b>J</b> | <b>E</b> |  |  |
| GLOBAL MODEL<br>(6 digits)                                               |          | TERMINAL DESIGNATION<br>(2 digits)                                                       |          | TERMINAL FINISH<br>(1 digit) |          | VALUE<br>(5 digits)                                                                        |          | TOLERANCE<br>(1 digit)                |          | PACKAGING CODE<br>(1 digit)                  |          | SPECIAL<br>(up to 2 digits)                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |          |  |  |
| (see Standard Electrical Specifications Global Model column for options) |          | <b>05</b><br><b>06</b><br><b>14</b><br><b>15</b><br><b>20</b><br><b>FC</b> = ferrule cap |          | <b>E</b> = lead (Pb)-free    |          | <b>R</b> = decimal<br><b>K</b> = thousand<br><b>1R500</b> = 1.5 Ω<br><b>1K500</b> = 1.5 kΩ |          | <b>J</b> = ± 5 %<br><b>K</b> = ± 10 % |          | <b>E</b> = lead (Pb)-free cell and bulk pack |          | (dash number) from <b>1</b> to <b>99</b> as applicable<br><b>91</b> = 100 style horizontal high bracket<br><b>92</b> = 200 style push-in bracket<br><b>93</b> = 300 style thru-bolt bracket<br><b>CT</b> = center tap<br><b>NI</b> = non-inductive<br><b>NP</b> = non-inductive + 92 style push-in bracket<br><b>NH</b> = non-inductive + 91 style horizontal bracket<br><b>NV</b> = non-inductive + style vertical bracket |          |          |          |  |  |

Historical Part Number example: **AST-25-25-5 %**

|                  |                               |            |         |
|------------------|-------------------------------|------------|---------|
| <b>AST-25</b>    | <b>25 <math>\Omega</math></b> | <b>5 %</b> |         |
| HISTORICAL MODEL | RESISTANCE VALUE              | TOLERANCE  | SPECIAL |

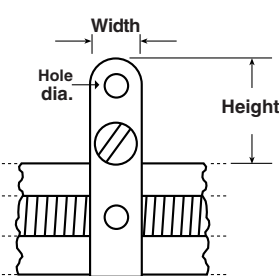
**DIMENSIONS** in inches (millimeters)


| MODEL            | A<br>(MAX.)      | CORE DIMENSIONS   |                           |                           | TERMINAL<br>SETBACK<br>± 0.031<br>(0.79) | DISTANCE<br>BETWEEN<br>TERMINALS<br>(REF.) | TERMINAL DESIGNATION |                                | SLIDER<br>MODEL<br>NUMBER |
|------------------|------------------|-------------------|---------------------------|---------------------------|------------------------------------------|--------------------------------------------|----------------------|--------------------------------|---------------------------|
|                  |                  | LENGTH            | O.D.<br>± 0.031<br>(0.79) | I.D.<br>± 0.031<br>(0.79) |                                          |                                            | STANDARD             | OPTIONAL<br>(QUICK<br>CONNECT) |                           |
| AST010           | 0.406<br>(10.31) | 1.750<br>(44.45)  | 0.313<br>(7.95)           | 0.188<br>(4.78)           | 0.094<br>(2.39)                          | 1.375<br>(34.93)                           | 05                   | 14                             | 70                        |
| AST020           | 0.563<br>(14.30) | 2.000<br>(50.8)   | 0.438<br>(11.13)          | 0.260<br>(6.60)           | 0.094<br>(2.39)                          | 1.625<br>(41.28)                           | 02                   | 14                             | 70                        |
| AST20A           | 0.563<br>(14.30) | 1.500<br>(38.10)  | 0.438<br>(11.11)          | 0.313<br>(7.94)           | 0.094<br>(2.38)                          | 0.937<br>(23.80)                           | 02                   | 14                             | -                         |
| AST025           | 0.668<br>(17.48) | 2.000<br>(50.8)   | 0.563<br>(14.30)          | 0.313<br>(7.95)           | 0.094<br>(2.39)                          | 1.562<br>(39.67)                           | 06                   | 15                             | 71                        |
| AST25A           | 0.906<br>(23.01) | 2.000<br>(50.8)   | 0.750<br>(19.05)          | 0.500<br>(12.7)           | 0.094<br>(2.39)                          | 1.562<br>(39.67)                           | 06                   | 15                             | 72                        |
| AST25B           | 0.770<br>(19.56) | 2.000<br>(50.8)   | 0.625<br>(15.88)          | 0.453<br>(11.51)          | 0.094<br>(2.39)                          | 1.562<br>(39.67)                           | 06                   | 15                             | 71                        |
| AST050           | 0.688<br>(17.48) | 4.000<br>(101.6)  | 0.563<br>(14.30)          | 0.313<br>(7.95)           | 0.094<br>(2.39)                          | 3.562<br>(90.47)                           | 06                   | 15                             | 71                        |
| AST50A           | 0.906<br>(23.01) | 4.000<br>(101.6)  | 0.750<br>(19.05)          | 0.500<br>(12.70)          | 0.062<br>(1.57)                          | 3.626<br>(92.10)                           | 06                   | 15                             | 71                        |
| AST50B           | 0.906<br>(23.01) | 4.500<br>(114.3)  | 0.750<br>(19.05)          | 0.547<br>(13.89)          | 0.125<br>(3.18)                          | 4.000<br>(101.60)                          | 06                   | 15                             | 72                        |
| AST075           | 0.688<br>(17.48) | 6.000<br>(152.4)  | 0.563<br>(14.30)          | 0.313<br>(7.95)           | 0.094<br>(2.39)                          | 5.562<br>(141.27)                          | 06                   | 15                             | 71                        |
| AST75A           | 0.906<br>(23.01) | 6.000<br>(152.4)  | 0.750<br>(19.05)          | 0.500<br>(12.70)          | 0.094<br>(2.39)                          | 5.562<br>(141.27)                          | 06                   | 15                             | 72                        |
| AST080           | 1.313<br>(33.34) | 4.000<br>(101.6)  | 1.125<br>(28.58)          | 0.750<br>(19.05)          | 0.219<br>(5.56)                          | 2.812<br>(71.42)                           | 20                   | 15                             | -                         |
| AST100           | 0.906<br>(23.01) | 6.500<br>(165.1)  | 0.750<br>(19.05)          | 0.500<br>(12.70)          | 0.125<br>(3.18)                          | 6.000<br>(152.40)                          | 06                   | 15                             | 72                        |
| AST130           | 1.313<br>(33.35) | 6.500<br>(165.1)  | 1.125<br>(28.58)          | 0.750<br>(19.05)          | 0.282<br>(7.16)                          | 5.374<br>(136.50)                          | 20                   | 15                             | 73                        |
| AST160           | 1.313<br>(33.35) | 8.500<br>(215.9)  | 1.125<br>(28.58)          | 0.750<br>(19.05)          | 0.267<br>(6.78)                          | 7.404<br>(188.06)                          | 20                   | 15                             | 73                        |
| AST175           | 1.313<br>(33.34) | 8.500<br>(215.9)  | 1.125<br>(28.58)          | 0.750<br>(19.05)          | 0.219<br>(5.56)                          | 7.312<br>(185.72)                          | 20                   | 15                             | -                         |
| AST200<br>AST225 | 1.313<br>(33.35) | 10.500<br>(266.7) | 1.125<br>(28.58)          | 0.750<br>(19.05)          | 0.266<br>(6.76)                          | 9.406<br>(238.91)                          | 20                   | 15                             | 73                        |

**TERMINAL DIMENSIONS** in inches (millimeters)


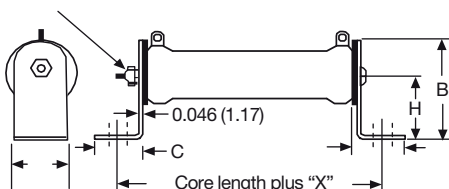
| DIMENSIONS           | TERMINAL STYLE   |                 |                 |                  |                  |                  |
|----------------------|------------------|-----------------|-----------------|------------------|------------------|------------------|
|                      | 20               | 02              | 05              | 06               | 14               | 15               |
| A                    | 0.375<br>(9.53)  | 0.188<br>(4.76) | 0.188<br>(4.76) | 0.250<br>(6.35)  | 0.188<br>(4.76)  | 0.250<br>(6.35)  |
| B                    | 0.562<br>(14.27) | 0.393<br>(9.98) | 0.393<br>(9.98) | 0.500<br>(12.70) | 0.563<br>(14.29) | 0.594<br>(15.08) |
| C (HOLE<br>DIAMETER) | 0.204<br>(5.18)  | 0.133<br>(3.38) | 0.133<br>(3.38) | 0.172<br>(4.36)  | 0.050<br>(1.27)  | 0.065<br>(1.65)  |
| D                    | 0.020<br>(0.51)  | 0.020<br>(0.51) | 0.020<br>(0.51) | 0.020<br>(0.51)  | 0.020<br>(0.51)  | 0.031<br>(0.79)  |

**AVT SLIDERS-DIMENSIONS** in inches (millimeters)

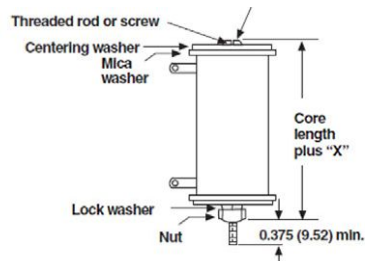
|  | GLOBAL PART NUMBER <sup>(1)</sup><br>(RoHS COMPLIANT) | GLOBAL PART NUMBER<br>FOR EXTRA<br>SLIDERS   | SLIDER<br>MODEL<br>TYPE | DIMENSIONS   |               |                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|-------------------------|--------------|---------------|------------------|
|                                                                                   |                                                       |                                              |                         | WIDTH        | HEIGHT        | HOLE<br>DIAMETER |
|                                                                                   | 75008602E29                                           | AST010, AST020                               | 70                      | 0.187 (4.75) | 0.516 (13.11) | 0.125 (3.18)     |
|                                                                                   | 75008603E29                                           | AST025, AST25B,<br>AST050, AST50A,<br>AST075 | 71                      | 0.250 (6.35) | 0.719 (18.26) | 0.141 (3.58)     |
|                                                                                   | 75008604E29                                           | AST25A, AST50B,<br>AST75A, AST100            | 72                      | 0.250 (6.35) | 0.844 (21.44) | 0.141 (3.58)     |
|                                                                                   | 75008605E29                                           | AST130, AST160,<br>AST200, AST225            | 73                      | 0.312 (7.92) | 0.797 (20.24) | 0.170 (4.32)     |

**Note**
<sup>(1)</sup> Order HEI slider with global part number.

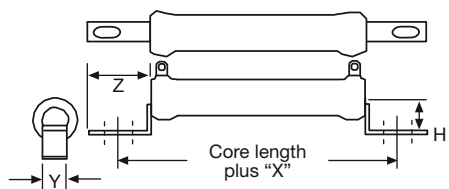
**MOUNTING HARDWARE FOR AVT PRODUCTS** - Dimensions in inches (millimeters)

**91 = 100 Style Horizontal 1 High Bracket**


| BRACKET<br>TYPE | X                | Y                | Z                | H                | MOUNTING<br>SLOT                | C                | B                |
|-----------------|------------------|------------------|------------------|------------------|---------------------------------|------------------|------------------|
| 101             | 1.063<br>(26.99) | 0.500<br>(12.70) | 0.950<br>(24.13) | 1.000<br>(25.40) | 0.219 x 0.438<br>(5.56 x 11.11) | 0.750<br>(19.05) | 1.375<br>(34.93) |
| 102             | 1.063<br>(26.99) | 0.750<br>(19.05) | 0.859<br>(21.83) | 1.250<br>(31.75) | 0.219 x 0.438<br>(5.56 x 11.11) | 0.750<br>(19.05) | 1.750<br>(44.45) |
| 103             | 1.063<br>(26.99) | 1.250<br>(31.75) | 1.000<br>(25.40) | 1.500<br>(38.10) | 0.281 x 0.563<br>(7.14 x 14.29) | 0.927<br>(23.55) | 2.125<br>(53.98) |

**93 = 300 Style Thru-Bolt Bracket**


| BRACKET<br>TYPE | X<br>(APPROXIMATE) | THREAD    |
|-----------------|--------------------|-----------|
| 301             | 0.373 (9.47)       | 8 to 32   |
| 302             | 0.271 (6.88)       | 10 to 32  |
| 303             | 0.463 (11.76)      | 1/4 to 20 |

**92 = 200 Style Push-In Bracket**


| BRACKET<br>TYPE | X                | H                | Y                | Z                | HOLE<br>(DIA.)                 |
|-----------------|------------------|------------------|------------------|------------------|--------------------------------|
| 202             | 0.478<br>(12.14) | 0.250<br>(6.35)  | 0.125<br>(3.175) | 0.375<br>(9.53)  | 0.170<br>(4.32)                |
| 203             | 0.583<br>(14.80) | 0.580<br>(14.73) | 0.188<br>(4.78)  | 0.460<br>(11.68) | 0.115<br>(2.92)                |
| 204             | 0.700<br>(17.78) | 0.578<br>(14.68) | 0.250<br>(6.35)  | 0.500<br>(12.70) | 0.156<br>(3.96)                |
| 205             | 0.846<br>(21.49) | 0.800<br>(20.32) | 0.375<br>(9.53)  | 0.600<br>(15.24) | 0.343 x 0.213<br>(8.71 x 5.46) |
| 206             | 0.846<br>(21.49) | 0.800<br>(20.62) | 0.375<br>(9.53)  | 0.600<br>(15.24) | 0.343 x 0.213<br>(8.71 x 5.46) |
| 207             | 0.700<br>(17.78) | 1.125<br>(28.58) | 0.500<br>(12.70) | 0.687<br>(17.45) | 0.250 x 0.188<br>(6.35 x 4.78) |
| 208             | 0.846<br>(21.49) | 0.800<br>(20.62) | 0.375<br>(9.53)  | 0.600<br>(15.24) | 0.343 x 0.213<br>(8.71 x 5.46) |

**MOUNTING HARDWARE**

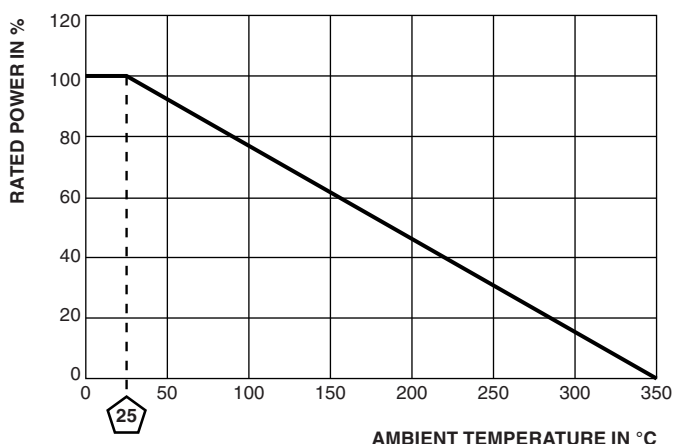
| GLOBAL<br>MODEL | AVAILABLE BRACKET TYPES BY MODEL                     |                                         |                                           |
|-----------------|------------------------------------------------------|-----------------------------------------|-------------------------------------------|
|                 | 91 = 100<br>STYLE<br>HORIZONTAL<br>1 HIGH<br>BRACKET | 92 = 200<br>STYLE<br>PUSH-IN<br>BRACKET | 93 = 300<br>STYLE<br>THRU-BOLT<br>BRACKET |
| AST010          | 101                                                  | 202                                     | 301                                       |
| AST020          | 101                                                  | 203                                     | 301                                       |
| AST20A          | 101                                                  | 203                                     | 301                                       |
| AST025          | 102                                                  | 204                                     | 301                                       |
| AST25A          | 102                                                  | 206                                     | 302                                       |
| AST25B          | 102                                                  | 205                                     | 301                                       |
| AST050          | 102                                                  | 204                                     | 302                                       |
| AST50A          | 102                                                  | 206                                     | 302                                       |
| AST50B          | 102                                                  | 208                                     | 302                                       |
| AST075          | 102                                                  | 204                                     | 301                                       |
| AST75A          | 102                                                  | 206                                     | 302                                       |
| AST100          | 102                                                  | 206                                     | 302                                       |
| AST130          | 103                                                  | 207                                     | 302                                       |
| AST175          | 103                                                  | 207                                     | 303                                       |
| AST200          | 103                                                  | 207                                     | 303                                       |
| AST225          | 103                                                  | 207                                     | 303                                       |

**TECHNICAL SPECIFICATIONS**

| PARAMETER                              | UNIT             | RESISTOR CHARACTERISTICS                                                                |
|----------------------------------------|------------------|-----------------------------------------------------------------------------------------|
| Power Rating                           | W                | 12 to 225                                                                               |
| Resistance Range                       | $\Omega$         | 1 to 398K                                                                               |
| Resistance Tolerance                   | %                | 5, 10                                                                                   |
| Temperature Coefficient                | ppm/°C           | $\pm 260$ for 20 $\Omega$ and above, $\pm 400$ for 1 $\Omega$ to 19.99 $\Omega$         |
| Operating Temperature                  | °C               | -55 °C to 350 °C                                                                        |
| Temperature Rise                       | °C               | 325 °C above an ambient of 25 °C                                                        |
| Maximum Altitude                       | f.a.s.l.         | 10 000                                                                                  |
| Short-Term Overload                    | -                | 10x rated power for 5 s                                                                 |
| Surge Windings                         |                  | Available                                                                               |
| Maximum Working Voltage                | -                | $(P \times R)^{0.5}$                                                                    |
| Insulation Resistance                  | $\Omega$         | 1M                                                                                      |
| Dielectric Voltage                     | V <sub>RMS</sub> | 1000 V <sub>AC</sub>                                                                    |
| Creepage                               |                  | Varies by wattage, see "Terminal Setback" in Dimensions table                           |
| Terminal Sleeves                       |                  | n/a                                                                                     |
| Inductance                             | $\mu$ H          | Varies by wattage and resistance                                                        |
| Non-Inductive Winding                  |                  | Available                                                                               |
| Terminal Strength                      | lb               | 10 lbs                                                                                  |
| Electrical or Mechanical Customization |                  | Contact factory: <a href="mailto:ww2dresistors@vishay.com">ww2dresistors@vishay.com</a> |

**MATERIAL SPECIFICATIONS**

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Element            | Copper-nickel alloy or nickel-chrome alloy, depending on resistance value |
| Core               | Cordierite, steatite                                                      |
| Coating            | Special high temperature silicone                                         |
| Standard Terminals | Tinned alloy 42                                                           |
| Optional Terminals | Alloy 42                                                                  |
| Terminal Bands     | Alloy 42                                                                  |
| Part Marking       | HEI, model, wattage, value, tolerance, date code                          |

**DERATING**



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## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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