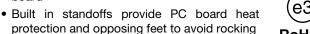


Wirewound Resistors, Industrial Power, Silicone Coated, Printed Circuit Board Mount



FEATURES

- · High temperature silicone coating
- · Eliminates lead forming to keep parts off of PC board

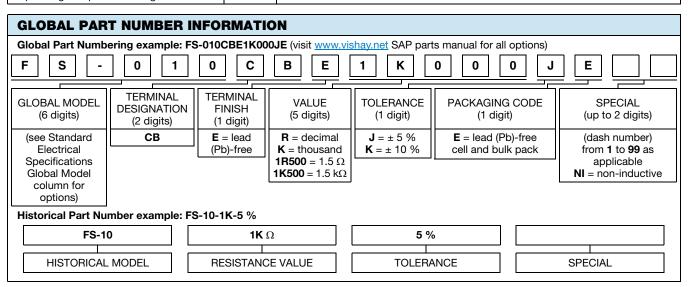




- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | | | |
|------------------------------------|---------------------|------------------------------------|-----------------------------------|------------------------------------|--------------------------|--|--|--|--|
| GLOBAL MODEL | HISTORICAL MODEL | POWER RATING P _{25 °C} W | RESISTANCE RANGE Ω ± 5 % | RESISTANCE RANGE Ω ± 10 % | WEIGHT (typical) g | | | | |
| FS-003 | FS-3 | 3 | 1.0 to 6K | 0.1 to 6K | 1.16 | | | | |
| FS-05A | FS-5A | 5 | 1.0 to 15K | 0.1 to 15K | 2.12 | | | | |
| FS-005 | FS-5 | 7 | 1.0 to 17.5K | 0.1 to 17.5K | 3.36 | | | | |
| FS-05S | FS-5S | 8 | 1.0 to 20.5K | 0.1 to 20.5K | 4.60 | | | | |
| FS-010 | FS-10 | 10 | 1.0 to 29K | 0.1 to 29K | 6.24 | | | | |
| FS-10S | FS-10S | 12 | 1.0 to 58K | 0.1 to 58K | 6.60 | | | | |
| FS-020 | FS-20 | 20 | 1.0 to 60K | 0.1 to 60K | 8.82 | | | | |
| FS-20S | FS-20S | 20 | 1.0 to 95K | 0.1 to 95K | 11.36 | | | | |

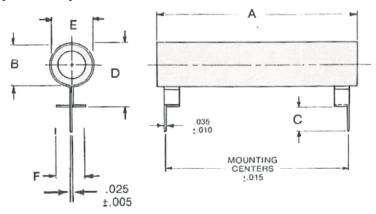
| TECHNICAL SPECIFICATIONS | | | | | | | |
|---------------------------------|-----------------|--|--|--|--|--|--|
| PARAMETER | UNIT | FS RESISTOR CHARACTERISTICS | | | | | |
| Temperature Coefficient | ppm/°C | \pm 260 for 20 Ω and above, \pm 400 for 1 Ω to 19.99 $\Omega,$ special TC's available please contact factory | | | | | |
| Short Time Overload | - | 10 x rated power for 5 s | | | | | |
| Dielectric Withstanding Voltage | V _{AC} | 1000, from terminal to mounting hardware | | | | | |
| Maximum Working Voltage | V | $(P \times R)^{1/2}$ | | | | | |
| Operating Temperature Range | °C | -55 to +350 | | | | | |



Revision: 03-Apr-2019 Document Number: 31845



DIMENSIONS in inches [millimeters]



Note

• Recommended mounting hole is 0.078 diameter.

| | DIMENSIONS in inches [millimeters] | | | | | | | | |
|--------|------------------------------------|--------------------------|---------------------|-----------|-----------|-----------|------------------------------|--|--|
| MODEL | CORE | | С | | | | STANDARD MOUNTING | | |
| | A ± 0.062 [± 1.57] | B ± 0.031 [± 0.78] | ± 0.062 [± 1.57] | D MAX. | E MAX. | F MAX. | CENTERS ± 0.015 [± 0.381] | | |
| FS-003 | 1.000 | 0.200 | 0.360 | 0.450 | 0.281 | 0.400 | 0.600 | | |
| FS-002 | [25.4] | [5.08] | [9.14] | [11.43] | [7.14] | [10.16] | [15.24] | | |
| FS-05A | 1.125 | 0.200 | 0.360 | 0.450 | 0.281 | 0.400 | 0.900 | | |
| | [28.58] | [5.08] | [9.14] | [11.43] | [7.14] | [10.16] | [22.86] | | |
| FS-005 | 1.000 | 0.312 | 0.360 | 0.600 | 0.410 | 0.500 | 0.600 | | |
| FS-006 | [25.4] | [7.94] | [9.14] | [15.24] | [10.41] | [12.7] | [15.24] | | |
| FS-05S | 1.125 | 0.312 | 0.360 | 0.600 | 0.410 | 0.500 | 0.900 | | |
| | [28.58] | [7.94] | [9.14] | [15.24] | [10.41] | [12.7] | [22.86] | | |
| FS-010 | 1.750 | 0.312 | 0.360 | 0.600 | 0.410 | 0.500 | 1.300 | | |
| | [44.45] | [7.94] | [9.14] | [15.24] | [10.41] | [12.7] | [33.02] | | |
| FS-10S | 2.125 | 0.312 | 0.360 | 0.600 | 0.410 | 0.500 | 1.700 | | |
| | [53.98] | [7.94] | [9.14] | [15.24] | [10.41] | [12.7] | [43.18] | | |
| FS-015 | 2.000 | 0.437 | 0.19 | 0.725 | 0.531 | 0.531 | 1.700 | | |
| FS-020 | [50.8] | [11.11] | [4.82] | [18.41] | [13.49] | [13.49] | [43.18] | | |
| FS-20S | 2.375 | 0.437 | 0.19 | 0.725 | 0.531 | 0.531 | 2.200 | | |
| | [60.325] | [11.11] | [4.82] | [18.41] | [13.49] | [13.49] | [55.88] | | |

Notes

- The pin configuration on the terminals for the FS-10S and smaller products is on the center of the terminal.
- The pin configuration on the terminals for the FS-015 and larger products is on the edge of the terminal

MATERIAL SPECIFICATIONS

Element: copper-nickel alloy or nickel-chrome alloy,

depending on resistance value

Core: ceramic, steatite

Coating: special high temperature silicone **Standard Terminals:** tinned alloy 42

Terminal Bands: alloy 42

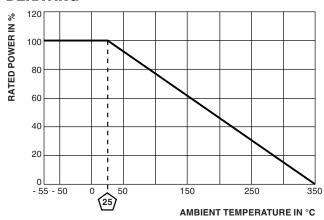
Part Marking: HEI, model, wattage, value, tolerance, date

code

NON-INDUCTIVE

Models of equivalent physical and electrical specifications are available with non-inductive (Ayrton-Perry) winding. They are identified by adding the letters "NI" to the end of the part number in the special section. For non-inductive models the maximum resistance values are one-half the standard part.

DERATING





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Vishay

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