

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



FEATURES

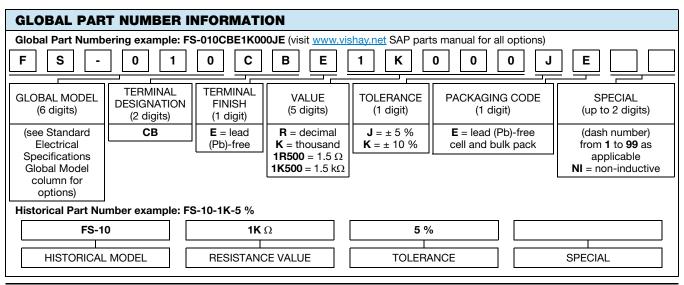
- · High temperature silicone coating
- Eliminates lead forming to keep parts off of PC board



- Built in standoffs provide PC board heat protection and opposing feet to avoid rocking
- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

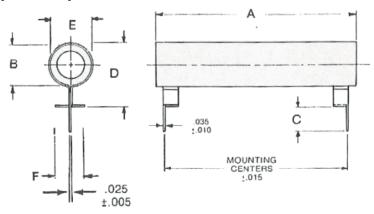
STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING P _{25 °C} W	RESISTANCE RANGE Ω ±5%	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g				
FS-003	FS-3	3	1.0 to 6K	0.1 to 6K	1.16				
FS-05A	FS-5A	5	1.0 to 15K	0.1 to 15K	2.12				
FS-005	FS-5	7	1.0 to 17.5K	0.1 to 17.5K	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					





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

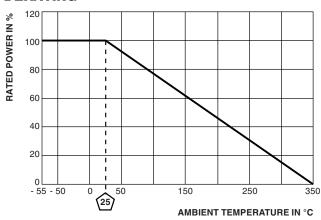
Part Marking: HEI, model, wattage, value, tolerance, date

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





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Vishay manufacturer:

Other Similar products are found below:

M39006/22-0577H M39006/22-0608H/96 Y00892K49000BR13L VS-12CWQ10FNPBF M8340109M6801GGD03 VS-MBRB1545CTPBF

1KAB100E CCF5020K0FKR36 CCF5010K0FKE36 VSMF4720-GS08 001789X LTO050FR0500JTE3 LVR10R0200FE03

CRCW12063K01FKEA CRCW12063K30FKEAHP 009923A CRHV1206AF80M0FKET CS6600552K000B8768 M39003/01-2289

M39003/01-2784 CW0106K000JE73 672D826H075EK5C CWR06JC105KC CWR06NC475JC MAL202118471E3 MAL213660221E3

MAL213666102E3 MAL215058102E3 MAL219699001E3 PTF56100K00QYEK PTN0805H1502BBTR1K RCL12252K20JNEG

RCWL1210R130JNEA RE65G2211C02 RH005220R0FE02 RH005330R0FC02 RH010R0500FC02 132B20103 RH0501R650FC02

RH0507R000FC02 RH1007R000FJ01 RH2503R500FE01 RH254R220FS03 RH-50-40R2-1%-C02 134D336X9075C6 132B00301

DG9426EDQ-T1-GE3 138D685X0075C2 RN55C1242FB14 RN55D3010FB14