Vishay Huntington



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



FEATURES

board

High temperature silicone coatingEliminates lead forming to keep parts off of PC



• Built in standoffs provide PC board heat protection and opposing feet to avoid rocking



COMPLIANT

- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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 x R) ^{1/2}				
Operating Temperature Range	°C	- 55 to + 350				

GLOBAL PART NUMBER INFORMATION								
Global Part Numbering example: FS-010CBE1K000JE (visit www.vishay.net SAP parts manual for all options)								
F S - 0 1 0 C B E 1 K 0 0 0 J E								
GLOBAL MODEL (6 digits) TERMINAL DESIGNATION (2 digits) TERMINAL FINISH (1 digit) VALUE (5 digits) TOLERANCE (1 digit) PAC	CKAGING CODE SPECIAL (1 digit) (up to 2 digits)							
	= E01 = Lead)-free skin pack (Dash number) From 1 to 99 as applicable NI = Non-inductive							
Historical Part Number example: FS-10-1K-5 %								
FS-10 1K Ω 5 % HISTORICAL MODEL RESISTANCE VALUE TOLERANCE	SPECIAL							

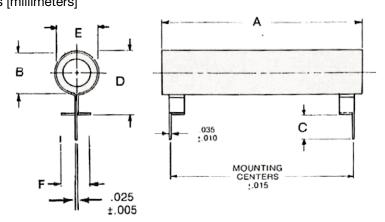
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Note

• Recommended mounting hole is 0.078 diameter.

	DIMENSIONS in inches [millimeters]							
MODEL	CORE			D	E	F	STANDARD MOUNTING	
	Α	В	C	MAX.	MAX.	MAX.	CENTERS ± 0.015 [± 0.381]	
FS-003	1.000	0.200	0.125	0.450	0.281	0.400	0.600	
	[25.4]	[5.08]	[3.18]	[11.43]	[7.14]	[10.16]	[15.24]	
FS-05A	1.125	0.200	0.125	0.450	0.281	0.400	0.900	
	[28.58]	[5.08]	[3.18]	[11.43]	[7.14]	[10.16]	[22.86]	
FS-005	1.000	0.312	0.150	0.600	0.410	0.500	0.600	
	[25.4]	[7.94]	[3.81]	[15.24]	[10.41]	[12.7]	[15.24]	
FS-05S	1.125	0.312	0.150	0.600	0.410	0.500	0.900	
	[28.58]	[7.94]	[3.81]	[15.24]	[10.41]	[12.7]	[22.86]	
FS-010	1.750	0.312	0.150	0.600	0.410	0.500	1.300	
	[44.45]	[7.94]	[3.81]	[15.24]	[10.41]	[12.7]	[33.02]	
FS-10S	2.125	0.312	0.150	0.600	0.410	0.500	1.700	
	[53.98]	[7.94]	[3.81]	[15.24]	[10.41]	[12.7]	[43.18]	
FS-020	2.000	0.437	0.200	0.725	0.531	0.531	1.700	
	[50.8]	[11.11]	[5.08]	[18.41]	[13.49]	[13.49]	[43.18]	
FS-20S	2.375	0.437	0.200	0.725	0.531	0.531	2.200	
	[9.53]	[11.11]	[5.08]	[18.41]	[13.49]	[13.49]	[55.88]	

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

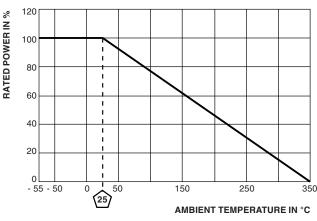
Terminal Bands: Alloy 42

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.







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