

Wirewound Resistors, Industrial Power, Vitreous Coated, Fixed Edgewound Tubular


FEATURES

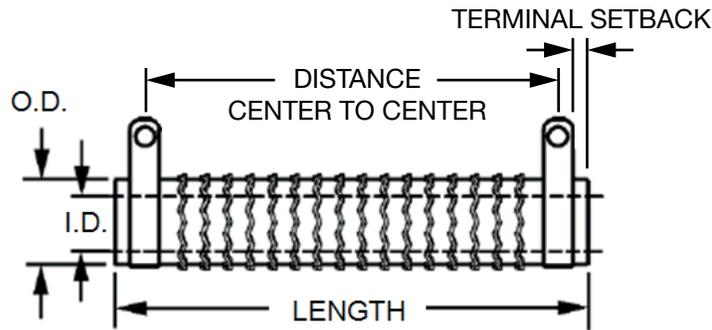
- High temperature vitreous coating
- Complete welded construction
- Excellent stability in operation (< 3 % change resistance)
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



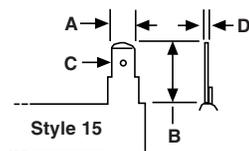
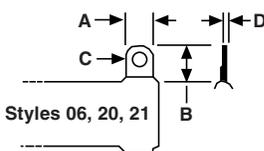
RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25^\circ\text{C}}$ W	RESISTANCE RANGE Ω $\pm 5\%$	RESISTANCE RANGE Ω $\pm 10\%$	WEIGHT (typical) g
FVE0050	FVE-50	50	1.0 to 3.8	1.0 to 3.8	18
FVE0090	FVE-90	90	0.10 to 5.7	0.10 to 5.7	36
FVE0100	FVE-100	100	1.0 to 6.1	0.15 to 6.1	41
FVE0110	FVE-110	110	1.0 to 7.4	0.20 to 7.4	49
FVE0120	FVE-120	120	1.0 to 8.6	0.1 to 8.6	54
FVE0140	HLZ-140	140	0.08 to 9.0	0.08 to 9.0	109
FVE0155	FVE-155	155	1.0 to 12.5	0.1 to 12.5	129
FVE0165	FVE-165	165	0.35 to 13.0	0.35 to 13.0	91
FVE0180	HLZ-165	165	0.35 to 13.0	0.35 to 13.0	91
FVE0240	FVE-240	240	1.0 to 18	0.1 to 18	186
FVE0300	FVE-300	300	1.0 to 25	0.15 to 25	236
FVE0375	FVE-375	375	1.0 to 32	0.20 to 32	286
FVE0420	FVE-420	420	1.0 to 35.8	0.25 to 35.8	320
FVE0500	FVE-500	500	1.0 to 46.2	0.30 to 46.2	381

GLOBAL PART NUMBER INFORMATION						
Global Part Numbering example: FVE030020E15R0JE (visit www.vishay.net Vishay Dale parts numbering manual for all options)						
F	V	E	0	3	0	0
2	0	E	1	5	R	0
J	E					
GLOBAL MODEL (7 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (4 digits)	TOLERANCE (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)
(see Standard Electrical Specifications Global Model column for options)	06 15 20	E = lead (Pb)-free	R = decimal 1R50 = 1.5 Ω	J = $\pm 5\%$ K = $\pm 10\%$	E = lead (Pb)-free bulk pack	(dash number) from 1 to 99 as applicable 91 = 100 style BKT 92 = 200 style BKT 93 = 300 style BKT
Historical Part Number example: FVE-300-15-5 %						
FVE-300	15 Ω	5 %				
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE				SPECIAL

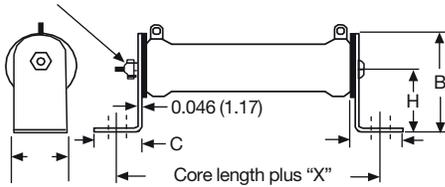
DIMENSIONS in inches (millimeters)


MODEL	CORE DIMENSIONS			TERMINAL SETBACK	DISTANCE CENTER TO CENTER (REF.)	TERMINAL DESIGNATION	
	LENGTH	O.D. ± 0.031 (± 0.79)	I.D. ± 0.031 (± 0.79)			STANDARD	OPTIONAL (QUICK CONNECT)
FVE0050	2.000 (50.8)	0.750 (19.05)	0.500 (12.70)	0.094 (2.18)	1.562 (39.67)	06	15
FVE0090	4.000 (101.6)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	3.562 (90.47)	06	15
FVE0100	3.500 (88.90)	0.750 (19.05)	0.500 (12.70)	0.079 (2.01)	3.092 (78.54)	06	15
FVE0110	4.000 (101.6)	0.750 (19.05)	0.500 (12.70)	0.125 (3.18)	3.500 (88.90)	06	15
FVE0120	4.500 (114.3)	0.750 (19.05)	0.547 (13.89)	0.125 (3.18)	3.400 (101.60)	06	15
FVE0140	4.000 (101.6)	1.125 (28.58)	0.750 (19.05)	0.219 (5.56)	2.812 (71.42)	20	15
FVE0155	4.250 (107.95)	1.125 (28.58)	0.750 (19.05)	0.282 (7.16)	3.311 (84.10)	20	15
FVE0165	6.500 (165.1)	0.750 (19.05)	0.750 (19.05)	0.125 (3.18)	5.75 (146.05)	20	15
FVE0180	6.500 (165.1)	0.750 (19.05)	0.750 (19.05)	0.125 (3.18)	5.75 (146.05)	20	15
FVE0240	6.500 (165.1)	1.125 (28.58)	0.750 (19.05)	0.250 (6.35)	5.625 (142.88)	20	15
FVE0300	8.500 (215.9)	1.125 (28.58)	0.750 (19.05)	0.267 (6.78)	7.591 (192.81)	20	15
FVE0375	10.500 (266.7)	1.125 (28.58)	0.750 (19.05)	0.266 (6.76)	9.593 (243.66)	20	15
FVE0420	11.750 (298.45)	1.125 (28.58)	0.750 (19.05)	0.266 (6.76)	10.843 (275.41)	20	15
FVE0500	10.500 (266.7)	1.625 (41.28)	1.125 (28.58)	0.267 (6.78)	9.466 (240.44)	21	-

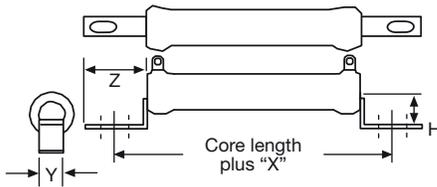
TERMINAL DIMENSIONS in inches (millimeters)


DIMENSIONS	TERMINAL STYLE			
	06	15	20	21
A	0.250 (6.35)	0.250 (6.35)	0.375 (9.53)	0.500 (12.70)
B	0.500 (12.70)	0.594 (15.08)	0.5625 (14.28)	0.625 (15.87)
C (HOLE DIAMETER)	0.173 (4.39)	0.065 (1.65)	0.204 (5.18)	0.264 (6.70)
D	0.020 (0.51)	0.031 (0.79)	0.032 (0.812)	0.025 (0.64)

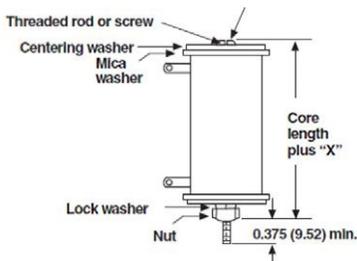
MOUNTING HARDWARE FOR FVE PRODUCTS - Dimensions in inches (millimeters)

91 = 100 Style Horizontal 1 High Bracket


BRACKET TYPE	X	Y	Z	H	MOUNTING SLOT	C	B
102	1.063 (26.99)	0.750 (19.05)	0.859 (21.83)	1.250 (31.75)	0.219 x 0.438 (5.56 x 11.11)	0.750 (19.05)	1.750 (44.75)
103	1.063 (26.99)	1.250 (31.75)	1.000 (25.40)	1.500 (38.10)	0.281 x 0.563 (7.14 x 14.29)	0.927 (23.55)	2.125 (53.98)

92 = 200 Style Push-In Bracket


BRACKET TYPE	X	H	Y	Z	HOLE (DIA.)
204	0.700 (17.78)	0.578 (14.68)	0.250 (6.35)	0.500 (12.70)	0.156 (3.96)
206	0.846 (21.49)	0.800 (20.62)	0.375 (9.53)	0.600 (15.24)	0.343 x 0.213 (8.71 x 5.46)
207	0.700 (17.78)	1.125 (28.58)	0.500 (12.70)	0.687 (17.45)	0.250 x 0.188 (6.35 x 4.78)

93 = 300 Style Thru-Bolt Bracket


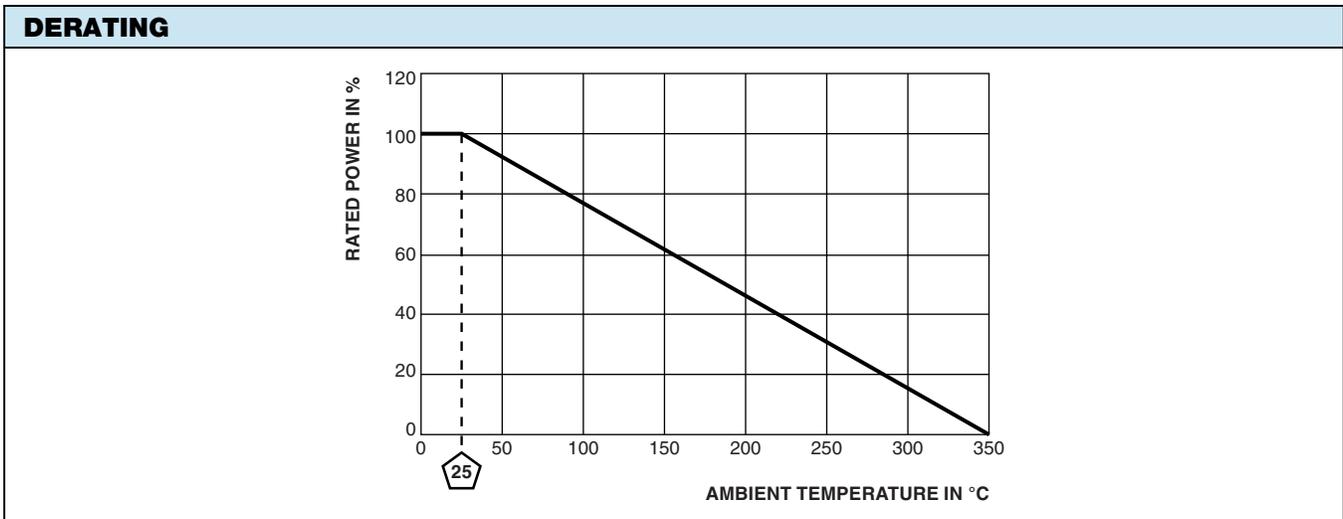
BRACKET TYPE	X (APPROXIMATE)	THREAD
302	0.271 (6.88)	10-32
303	0.463 (11.76)	1/4-20

MOUNTING HARDWARE			
GLOBAL MODEL	AVAILABLE BRACKET TYPES BY MODEL		
	91 = 100 STYLE HORIZONTAL 1 HIGH BRACKET	92 = 200 STYLE PUSH-IN BRACKET	93 = 300 STYLE THRU-BOLT BRACKET
FVE0050	102	206	302
FVE0090	102	204	302
FVE0100	102	206	302
FVE0110	102	206	302
FVE0120	102	206	302
FVE0140	103	205	303
FVE0155	103	207	302
FVE0165	102	206	303
FVE0180	102	206	303
FVE0240	103	207	302
FVE0300	103	207	303
FVE0375	103	207	303
FVE0420	103	207	303
FVE0500	103	-	302



TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Power Rating	W	50 to 500
Resistance Range	Ω	0.10 to 46.2
Resistance Tolerance	%	10
Temperature Coefficient	ppm/ $^{\circ}$ C	± 260 for 20 Ω and above, ± 400 for 1 Ω to 19.99 Ω
Operating Temperature	$^{\circ}$ C	-55 $^{\circ}$ C to 350 $^{\circ}$ C
Temperature Rise	$^{\circ}$ C	325 $^{\circ}$ C above an ambient of 25 $^{\circ}$ 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	Ω	1M
Dielectric Voltage	V _{RMS}	1000 V _{AC}
Creepage	-	Varies by wattage, see "Terminal Setback" in Dimensions table
Terminal Sleeves	-	n/a
Inductance	μ H	Varies by wattage and resistance
Non-Inductive Winding	-	n/a
Terminal Strength	lb	10 lbs
Electrical or Mechanical Customization	-	Contact factory: ww2dresistors@vishay.com

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





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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Работу по проектам и поставку образцов.
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Конструкторский отдел помогает осуществить:

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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