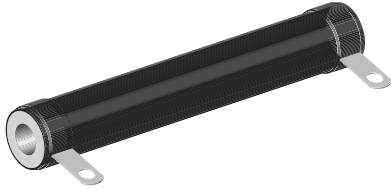


Wirewound Resistor, Industrial Power, Vitreous Coated, Fixed Tubular


FEATURES

- High temperature vitreous coating
- Complete welded construction
- Available in non-inductive style (special "NI") with Ayrton-Perry winding
- Tight tolerance of 5 % for values above 1 Ω
- Excellent stability in operation (< 3 % change resistance)
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912


STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING $P_{25\text{ }^\circ\text{C}}$ W	RESISTANCE RANGE Ω $\pm 5\%$	RESISTANCE RANGE Ω $\pm 10\%$	WEIGHT (typical) g
FVT005	FVT-5	5	1.0 to 20.5K	0.1 to 20.5K	4.60
FVT005...NI	FVT-5-...-NI	5	1.0 to 750	1.0 to 750	4.60
FVT010	FVT-10	12	1.0 to 58K	0.1 to 58K	6.7
FVT010...NI	FVT-10-...-NI	12	1.0 to 3.9K	1.0 to 3.9K	6.7
FVT020	FVT-20	20	1.0 to 95K	0.1 to 95K	12.57
FVT020...NI	FVT-20-...-NI	20	1.0 to 6.8K	1.0 to 6.8K	12.57
FVT20A	-	15	1.0 to 60K	0.10 to 60K	8.64
FVT025	FVT-25	25	1.0 to 115K	0.1 to 115K	20.7
FVT025...NI	FVT-25-...-NI	25	1.0 to 8.8K	1.0 to 8.8K	20.7
FVT25A	FVT-25A	30	1.0 to 56K	0.1 to 56K	20.7
FVT25A...NI	FVT-25A-...-NI	30	1.0 to 7.25K	1.0 to 7.25K	20.7
FVT25B	FVT-25B	30	1.0 to 49K	0.1 to 49K	14.5
FVT25B...NI	FVT-25B-...-NI	30	1.0 to 6.8K	1.0 to 6.8K	14.5
FVT050	FVT-50	50	1.0 to 112K	0.1 to 112K	42.1
FVT050...NI	FVT-50-...-NI	50	1.0 to 21.5K	1.0 to 21.5K	42.1
FVT50A	FVT-50A	60	1.0 to 145K	0.1 to 145K	65.6
FVT50A...NI	FVT-50A-...-NI	60	1.0 to 27.2K	1.0 to 27.2K	65.6
FVT50B	FVT-50B	70	1.0 to 170K	0.1 to 170K	60.0
FVT50B...NI	FVT-50B-...-NI	70	1.0 to 31.4K	1.0 to 31.4K	60.0
FVT075	FVT-75	75	1.0 to 276K	0.1 to 276K	98.5
FVT075...NI	FVT-75-...-NI	75	1.0 to 35K	1.0 to 35K	98.5
FVT75A	FVT-75A	90	1.0 to 238K	0.1 to 238K	64.8
FVT75A...NI	FVT-75A-...-NI	90	1.0 to 31K	1.0 to 31K	64.8
FVT080	-	80	1.0 to 190K	0.10 to 190K	121.58
FVT100	FVT-100	100	1.0 to 260K	0.1 to 260K	91.4
FVT100...NI	FVT-100-...-NI	100	1.0 to 48.5K	1.0 to 48.5K	91.4
FVT130	FVT-130	130	1.0 to 380K	0.1 to 380K	192.4
FVT130...NI	FVT-130-...-NI	130	1.0 to 70.2K	1.0 to 70.2K	192.4
FVT160	FVT-160	175	1.0 to 470K	0.1 to 470K	250.8
FVT160...NI	FVT-160-...-NI	175	1.0 to 105K	1.0 to 105K	250.8
FVT175	-	175	1.0 to 500K	0.10 to 500K	250.8
FVT200	FVT-200	225	1.0 to 645K	0.1 to 645K	310.0
FVT200...NI	FVT-200-...-NI	225	1.0 to 121K	1.0 to 121K	310.0
FVT225	FVT-225	225	1.0 to 645K	0.1 to 645K	310.0
FVT225...NI	FVT-225-...-NI	225	1.0 to 121K	1.0 to 121K	310.0



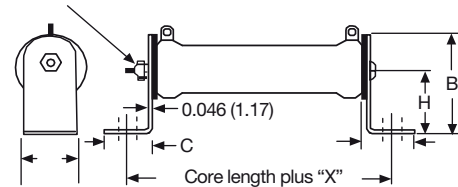
GLOBAL PART NUMBER INFORMATION																	
Global Part Numbering example: FVT02506E25R00JE (visit www.vishay.net SAP parts manual for all options)																	
F	V	T	0	2	5	0	6	E	2	5	R	0	0	J	E		
GLOBAL MODEL (6 digits)	TERMINAL DESIGNATION (2 digits)	TERMINAL FINISH (1 digit)	VALUE (5 digits)	TOLERANCE (1 digit)	PACKAGING CODE (1 digit)	SPECIAL (up to 2 digits)											
(see Standard Electrical Specifications Global Model column for options)	02, 05, 06, 14, 15, 20 FC = ferrule cap	E = lead (Pb)-free	R = decimal K = thousand 1R500 = 1.5 Ω 1K500 = 1.5 kΩ	J = ± 5 % K = ± 10 %	E = lead (Pb)-free bulk pack	(dash number) from 1 to 99 as applicable 91 = 100 style horizontal high bracket 92 = 200 style push-in bracket 93 = 300 style thru-bolt bracket NI = non-inductive NP = non-inductive + 92 style push-in bracket NH = non-inductive + 91 style horizontal bracket NV = non-inductive + style vertical bracket											
Historical Part Number example: FVT-25-25-5 %																	
FVT-25	25 Ω	5 %															
HISTORICAL MODEL	RESISTANCE VALUE	TOLERANCE				SPECIAL											

DIMENSIONS in inches (millimeters)								
MODEL	A MAX.	CORE DIMENSIONS			TERMINAL SETBACK ± 0.031 (0.79)	DISTANCE CENTER TO CENTER (REF.)	TERMINAL DESIGNATION	
		LENGTH	O.D. ± 0.031 (0.79)	I.D. ± 0.031 (0.79)			STANDARD	OPTIONAL (QUICK CONNECT)
FVT005	0.406 (10.31)	1.000 (25.40)	0.313 (7.95)	0.188 (4.78)	0.094 (2.39)	0.625 (15.88)	05	14
FVT010	0.406 (10.31)	1.750 (44.45)	0.313 (7.95)	0.188 (4.78)	0.094 (2.39)	1.375 (34.93)	05	14
FVT020	0.563 (14.30)	2.000 (50.8)	0.438 (11.13)	0.260 (6.60)	0.094 (2.39)	1.625 (41.28)	02	14
FVT20A	0.563 (14.30)	1.500 (38.10)	0.438 (11.11)	0.313 (7.94)	0.094 (2.38)	0.937 (23.80)	02	14
FVT025	0.688 (17.48)	2.000 (50.8)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	1.562 (39.67)	06	15
FVT25A	0.906 (23.01)	2.000 (50.8)	0.750 (19.05)	0.500 (12.70)	0.094 (2.39)	1.562 (39.67)	06	15
FVT25B	0.770 (19.56)	2.000 (50.8)	0.625 (15.88)	0.453 (11.51)	0.094 (2.39)	1.562 (39.67)	06	15
FVT050	0.688 (17.48)	4.000 (101.6)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	3.562 (90.47)	06	15
FVT50A	0.906 (23.01)	4.000 (101.6)	0.750 (19.05)	0.500 (12.70)	0.062 (1.57)	3.626 (92.10)	06	15
FVT50B	0.906 (23.01)	4.500 (114.3)	0.750 (19.05)	0.547 (13.89)	0.125 (3.18)	4.000 (101.60)	06	15
FVT075	0.688 (17.48)	6.000 (152.4)	0.563 (14.30)	0.313 (7.95)	0.094 (2.39)	5.562 (141.27)	06	15
FVT75A	0.906 (23.01)	6.000 (152.4)	0.750 (19.05)	0.500 (12.70)	0.094 (2.39)	5.562 (141.27)	06	15
FVT080	1.313 (33.34)	4.000 (101.6)	1.125 (28.58)	0.750 (19.05)	0.219 (5.56)	2.812 (71.42)	20	15
FVT100	0.906 (23.01)	6.500 (165.1)	0.750 (19.05)	0.500 (12.70)	0.125 (3.18)	6.000 (152.40)	06	15
FVT130	1.313 (33.35)	6.500 (165.1)	1.125 (28.58)	0.750 (19.05)	0.282 (7.16)	5.374 (136.50)	20	15
FVT160	1.313 (33.35)	8.500 (215.9)	1.125 (28.58)	0.750 (19.05)	0.267 (6.78)	7.404 (188.06)	20	15
FVT175	1.313 (33.34)	8.500 (215.9)	1.125 (28.58)	0.750 (19.05)	0.219 (5.56)	7.312 (185.72)	20	15
FVT200	1.313 (33.35)	10.500 (266.7)	1.125 (28.58)	0.750 (19.05)	0.266 (6.76)	9.406 (238.91)	20	15

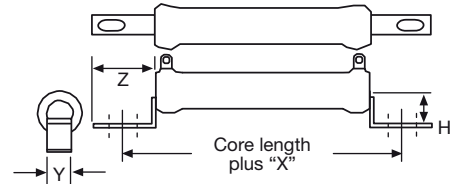
TERMINAL DIMENSIONS in inches (millimeters)						
DIMENSIONS	TERMINAL STYLE					
	20	02	05	06	14	15
WIDTH A	0.375 (9.53)	0.188 (4.76)	0.188 (4.76)	0.250 (6.35)	0.188 (4.76)	0.250 (6.35)
HEIGHT B	0.562 (14.07)	0.393 (9.98)	0.393 (9.98)	0.500 (12.70)	0.563 (14.29)	0.594 (15.08)
DIAMETER C	0.204 (5.18)	0.133 (3.38)	0.133 (3.38)	0.172 (4.36)	0.050 (1.27)	0.065 (1.65)
THICKNESS D	0.020 (0.51)	0.020 (0.51)	0.020 (0.51)	0.020 (0.51)	0.020 (0.51)	0.031 (0.79)

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
FVT005	n/a	202	n/a
FVT010	101	202	301
FVT020	101	203	301
FVT20A	101	203	301
FVT025	102	204	301
FVT25A	102	206	302
FVT25B	102	205	301
FVT050	102	204	302
FVT50A	102	206	302
FVT50B	102	208	302
FVT075	102	204	301
FVT75A	102	206	302
FVT100	102	206	302
FVT130	103	207	302
FVT175	103	207	303
FVT200	103	207	303
FVT225	103	207	303

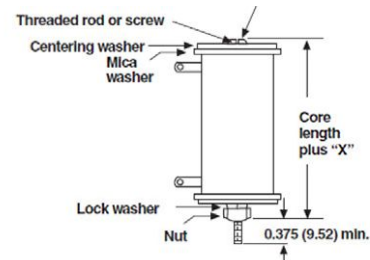
DIMENSIONS in inches (millimeters)

91 = 100 Style Horizontal 1 High Bracket


BRACKET TYPE	X	Y	Z	H	MOUNTING SLOT	C	B
101	1.063 (26.99)	0.500 (12.70)	0.950 (24.13)	1.000 (25.40)	0.219 x 0.438 (5.56 x 11.11)	0.750 (19.05)	1.375 (34.93)
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 (44.45)
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.)
202	0.478 (12.14)	0.250 (6.35)	0.125 (3.175)	0.375 (9.53)	0.170 (4.32)
203	0.583 (14.80)	0.580 (14.73)	0.188 (4.78)	0.460 (11.68)	0.115 (2.92)
204	0.700 (17.78)	0.578 (14.68)	0.250 (6.35)	0.500 (12.70)	0.156 (3.96)
205	0.846 (21.49)	0.800 (20.32)	0.375 (9.53)	0.600 (15.24)	0.343 x 0.213 (8.71 x 5.46)
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)
208	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)

93 = 300 Style Thru-Bolt Bracket


BRACKET TYPE	X (APPROXIMATE)	THREAD
301	0.373 (9.47)	8 to 32
302	0.271 (6.88)	8 to 32
303	0.463 (11.76)	1/4 to 20

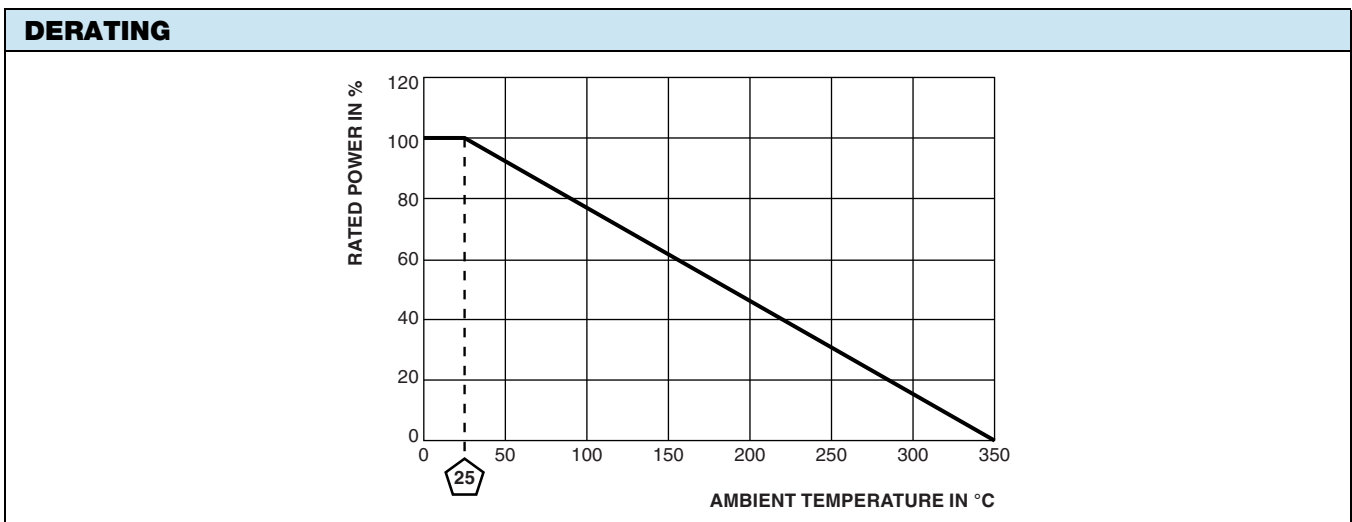


TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Power Rating	W	5 to 225
Resistance Range	Ω	0.1 to 645K
Resistance Tolerance	%	5
Temperature Coefficient	ppm/ $^{\circ}$ C	± 260 for 20 Ω and above, ± 400 for 1 Ω to 19.99 Ω
Operating Temperature	$^{\circ}$ C	-55 $^{\circ}$ C to 350 $^{\circ}$ 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		Available
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

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 lower, see Standard Electrical Specifications table.





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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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