Vishay Milwaukee



### **Adjustable Ribwound Resistor**



#### FEATURES

 Resistance wire is spotwelded to the terminal bands and then "locked" onto the core with a vitreous enamel or silicone coating



**RoHS** COMPLIANT

- Hardware can be supplied mounted, as loose assemblies, or as individual parts. Enclosures can also be produced.
- Available as fixed and adjustable resistors (for fixed Ribwound Resistor see <a href="http://www.vishay.com/doc?31807">www.vishay.com/doc?31807</a>)
- Wirewound
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING W	RESISTANCE RANGE Ω	TOLERANCE <sup>(4)</sup> %		
RBEA0090 (1)	9-64-ΩRA	90	0.014 to 25.3	10		
RBEA0100 <sup>(1)</sup>	12-56-ΩRA	100	0.011 to 20.7	10		
RBEA0110 <sup>(1)</sup>	12-64-ΩRA	110	0.014 to 26.8	10		
RBEA0120 <sup>(1)</sup>	12-72-ΩRA	120	0.017 to 32.9	10		
RBEA0135 <sup>(1)</sup>	12-80-ΩRA	135	0.020 to 39	10		
RBEA0150 <sup>(1)</sup>	18-64-ΩRA	150	0.018 to 39	10		
RBEA0160 <sup>(1)</sup>	12-96-ΩRA	160	0.027 to 51.3	10		
RBEA0175 <sup>(1)</sup>	18-72-ΩRA	175	0.022 to 48.1	10		
RBEA0180 <sup>(1)</sup>	12-104-ΩRA	180	0.030 to 57.4	10		
RBEA0220 (1)	18-96-ΩRA	220	0.035 to 75	10		
RBEA0225 (1)	18-98-ΩRA	225	0.036 to 77.2	10		
RBEA0240 <sup>(1)</sup>	18-104-ΩRA	240	0.039 to 83.9	10		
RBEA0300 (1)(3)	18-136-ΩRA	300	0.055 to 120	10		
RBEA0375 <sup>(1)</sup>	18-168-ΩRA	375	0.072 to 156	10		
RBEA0400 <sup>(1)</sup>	26-136-ΩRA	400	0.062 to 149	10		
RBEA0420 (1)	18-188-ΩRA	420	0.082 to 178	10		
RBEA0500 (1)(3)	26-168-ΩRA	500	0.083 to 200	10		
RBEA0550 <sup>(1)</sup>	26-188-ΩRA	550	0.097 to 232	10		
RBSA0750 (2)	40-192-ΩRA	750	0.130 to 158	10		
RBSA1000 (2)(3)	40-240-ΩRA	1000	0.176 to 209	10		
RBSA1500 (2)(3)	40-320-ΩRA	1500	0.248 to 294	10		
RBSA2000 (2)	52-320-ΩRA	2000	0.300 to 380	10		

#### Notes

• Ratings are based on a temperature rise of 375 °C above an ambient of 40 °C.

• Operating temperature range - 55 °C to 415 °C.

<sup>(1)</sup> RBEA0090 to RBEA0550 vitreous enamel coating is standard, silicone coating is available.

<sup>(2)</sup> RBSA0750 to RBSA2000 silicone coating is standard.

- <sup>(3)</sup> Stock wattage, see Ribwound Stock Ribs (<u>www.vishay.com/doc?31808</u>)
- <sup>(4)</sup> Closer tolerances available upon request.



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#### **DIMENSIONS** in inches (millimeters)



• For Terminal Data and Mounting Hardware, see <u>www.vishay.com/doc?31811</u>

• For Enclosures and Frames, see www.vishay.com/doc?31810

GLOBAL MODEL	C	ORE DIMENSIONS (RE	Α		
	B LENGTH	C D OUTER DIAMETER DIAMETER		DISTANCE BETWEEN TERMINAL (REF.)	TERMINAL STYLE
RBEA0090	4 (101.6)	0.5625 (14.2875)	0.3125 (7.9375)	3.50 (88.9)	D
RBEA0100	3.5 (88.9)	0.75 (19.05)	0.5 (12.7)	2.63 (66.675)	F
RBEA0110	4 (101.6)	0.75 (19.05)	0.5 (12.7)	3.13 (79.375)	F
RBEA0120	4.5 (114.3)	0.75 (19.05)	0.5 (12.7)	3.63 (92.075)	F
RBEA0135	5 (127)	0.75 (19.05)	0.5 (12.7)	4.13 (104.775)	F
RBEA0150	4 (101.6)	1.125 (28.575)	0.75 (19.05)	3.13 (79.375)	F
RBEA0160	6 (152.4)	0.75 (19.05)	0.5 (12.7)	5.13 (130.175)	F
RBEA0175	4.5 (114.3)	1.125 (28.575)	0.75 (19.05)	3.63 (92.075)	F
RBEA0180	6.5 (165.1)	0.75 (19.05)	0.5 (12.7)	5.63 (142.875)	F
RBEA0220	6 (152.4)	1.125 (28.575)	0.75 (19.05)	5.13 (130.175)	F
RBEA0225	6.125 (155.575)	1.125 (28.575)	0.75 (19.05)	5.25 (133.35)	F
RBEA0240	6.5 (165.1)	1.125 (28.575)	0.75 (19.05)	5.63 (142.875)	F
RBEA0300	8.5 (215.9)	1.125 (28.575)	0.75 (19.05)	7.63 (193.675)	F
RBEA0375	10.5 (266.7)	1.125 (28.575)	0.75 (19.05)	9.63 (244.475)	F
RBEA0400	8.5 (215.9)	1.625 (41.275)	1.125 (28.575)	7.63 (193.675)	G
RBEA0420	11.75 (298.45)	1.125 (28.575)	0.75 (19.05)	10.88 (276.225)	F
RBEA0500	10.5 (266.7)	1.625 (41.275)	1.125 (28.575)	9.00 (228.6)	G
RBEA0550	11.75 (298.45)	1.625 (41.275)	1.125 (28.575)	10.25 (260.35)	G
RBSA0750	12 (304.8)	2.5 (63.5)	1.75 (44.45)	10.50 (266.7)	G
RBSA1000	15 (381)	2.5 (63.5)	1.75 (44.45)	13.50 (342.9)	G
RBSA1500	20 (508)	2.5 (63.5)	1.75 (44.45)	18.50 (469.9)	G
RBSA2000	20 (508)	3.25 (82.55)	1.75 (44.45)	18.50 (469.9)	G

TERMINAL STYLE in inches (millimeters)



DIMENSIONS	D (1/4" LUG)	F (5/16" LUG)	G (1/2" LUG)	H (1/4" SQC)
Width (A)	0.25 (6.35)	0.375 (9.525)	0.5 (12.7)	0.25 (6.35)
Height (B)	0.5 (12.7)	0.625 (15.875)	0.9375 (23.8125)	0.625 (15.875)
Dia. (C)	0.17 (4.318)	0.2 (5.08)	0.26 (6.604)	0.065 (1.651)
Thickness (D)	0.02 (0.508)	0.035 (0.889)	0.046 (1.1684)	0.032 (0.8128)

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## **RB Series Adjustable**

#### Vishay Milwaukee

**MATERIAL SPECIFICATIONS** 

Element	Copper-nickel, nickel-chrome, iron-chrome-aluminum		
Core	Cordierite, steatite		
Coating	Special high temperature silicone or vitreous enamel		
Standard terminals	Nickel-iron		
Part marking	Value, date code, MRC		

GLOBAL PART NUMBER INFORMATION								
Global Part Numbering example: RBEA030020R00JFB00 (RBEA0300 20 5 % 3/8L B)								
R	ВЕ	Α	0 3	0 0		0 R 0	0 J	F B 0 0
	──┌┶		L					
MODEL (2 digits)	COATING (1 digit)	TYPE (1 digit)	SIZE (4 digits)	VALUE (5 digits)	TOLERANCE (1 digit)	TERMINAL (1 digit)	PACKAGING (1 digit)	(2 digits)
RB	E = Enamel S = Silicone	A = Adjustable		R = Decimal K = Thousand R1500 = 0.15 Ω 1K500 = 1.5 kΩ Check datasheet for available value range		D = 1/4" lug E = 5/16" lug F = 3/8" lug G = 1/2" lug H = 1/4" single quick-connect J = 1/4" double quick-connect K = 1/4" lug with steel hardware (ES-707F) L = 5/16" lug with steel hardware (ES-707F) M = 3/8" lug with brass hardware (ES-707F) P = 1/2" lug with steel hardware (ES-707F) Q = 1/4" lug with steel hardware (ES-707F) R = 5/16" lug with steel hardware (ES-708F) R = 5/16" lug with steel hardware (ES-708F) S = 3/8" lug with steel hardware (ES-708F) S = 3/8" lug with steel hardware (ES-708F) V = 1/2" lug with steel hardware (ES-708F) W = Ferrule		00 = Standard 01 = Standard with customer part no. stamp NI = Non-inductive CT = Center tap SW = Surge winding LT = Low temperature coefficient alloy EC = End caps CP = Push in clips (bulk) CA = Push in clips (assembled) VT = Vertical mount VS = VT with customer part no. stamp ES = End slot side slot bracket 1A = 1 high bracket zinc plated steel 1S = 1A with customer part no. stamp 1B = 1 high bracket stainless steel (300 W only) 1C = Live bracket 2A = 2 high bracket zinc plated steel 2B = 3 high bracket stainless steel (300 W only) 3A = 3 high bracket stainless steel (300 W only) 4A = 4 high bracket stainless steel (300 W only) A = 4 high bracket stainless steel (300 W only) A = 4 high bracket stainless steel (300 W only) Note 2A, 2B, 3A, 3B, 4A, and 4B assemblies: include identical resistors only wiring to be supplied by customer reference CS series for further customization Note 3A, 3B, 4A, and 4B limitations: brackets fit 40 W to 550 W RB resistors

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- 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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