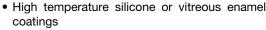


Vishay Milwaukee

Wirewound Resistors, Industrial Power, Tubular, Ribwound (RB), Fixed (RBEF, RBSF)



FEATURES





• Excellent for pulsing applications

RoHS

- All welded construction
- Designed to meet heavy-duty requirements where space is at a premium
- Hardware mounting options and enclosures available
- Wirewound
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL	HISTORICAL	POWER RATING	RESISTANCE RANGE	TOLERANCE	TERMINAL STYLE	
MODEL	MODEL	w	Ω	%	STANDARD	OPTION
RBEF0040 (1)	9-32-ΩR	40	0.010 to 10.6	10	D	Н
RBEF0050 (1)	12-32-ΩR	50	0.020 to 8.2	10	F	Н
RBEF0075 (1)	12-48-ΩR	75	0.010 to 19.3	10	F	Н
RBEF0090 (1)	9-64-ΩR	90	0.015 to 28.3	10	D	Н
RBEF0100 ⁽¹⁾	12-56-ΩR	100	0.012 to 24.5	10	F	Н
RBEF0110 ⁽¹⁾	12-64-ΩR	110	0.015 to 30.6	10	F	Н
RBEF0120 ⁽¹⁾	12-72-ΩR	120	0.018 to 36.8	10	F	Н
RBEF0135 (1)	12-80-ΩR	135	0.021 to 42.9	10	F	Н
RBEF0150 (1)	18-64-ΩR	150	0.019 to 44.8	10	F	Н
RBEF0160 ⁽¹⁾	12-96-ΩR	160	0.027 to 55.0	10	F	Н
RBEF0175 (1)	18-72-ΩR	175	0.023 to 53.7	10	F	Н
RBEF0180 ⁽¹⁾	12-104-ΩR	180	0.030 to 61.3	10	F	Н
RBEF0220 (1)	18-96-ΩR	220	0.035 to 80.6	10	F	Н
RBEF0225 (1)	18-98-ΩR	225	0.036 to 82.8	10	F	Н
RBEF0240 (1)	18-104-ΩR	240	0.038 to 89.5	10	F	Н
RBEF0300 (1)	18-136-ΩR	300	0.054 to 125	10	F	Н
RBEF0375 (1)	18-168-ΩR	375	0.069 to 161	10	F	Н
RBEF0400 (1)	26-136-ΩR	400	0.061 to 159	10	G	-
RBEF0420 (1)	18-188-ΩR	420	0.079 to 184	10	F	Н
RBEF0500 (1)	26-168-ΩR	500	0.081 to 210	10	G	-
RBEF0550 (1)	26-188-ΩR	550	0.093 to 242	10	G	-
RBSF0750	40-192-ΩR	750	0.128 to 166	10	G	-
RBSF1000	40-240-ΩR	1000	0.168 to 217	10	G	-
RBSF1500	40-320-ΩR	1500	0.234 to 303	10	G	-
RBSF2000	52-320-ΩR	2000	0.281 to 391	10	G	=

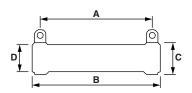
Note

⁽¹⁾ Vitreous enamel coating is standard (RBEF type), silicone coating is optional (RBSF type)





DIMENSIONS in inches (millimeters)



- For Terminal Data and Mounting Hardware, see www.vishay.com/doc?31811
- For Enclosures and Frames, see www.vishay.com/doc?31810

	С	ORE DIMENSIONS (RE	Α	WEIGHT	
GLOBAL MODEL	B LENGTH	C OUTER DIAMETER	D INNER DIAMETER	DISTANCE BETWEEN TERMINAL (REF.)	(TYP.) g
RBEF0040	2 (50.8)	0.5625 (14.2875)	0.3125 (7.9375)	1.25 (31.75)	20
RBEF0050	2 (50.8)	0.75 (19.05)	0.5 (12.7)	1.15 (29.21)	30
RBEF0075	3 (76.2)	0.75 (19.05)	0.5 (12.7)	2.13 (53.975)	50
RBEF0090	4 (101.6)	0.5625 (14.2875)	0.3125 (7.9375)	3.50 (88.9)	65
RBEF0100	3.5 (88.9)	0.75 (19.05)	0.5 (12.7)	2.63 (66.675)	58
RBEF0110	4 (101.6)	0.75 (19.05)	0.5 (12.7)	3.13 (79.375)	62
RBEF0120	4.5 (114.3)	0.75 (19.05)	0.5 (12.7)	3.63 (92.075)	68
RBEF0135	5 (127)	0.75 (19.05)	0.5 (12.7)	4.13 (104.775)	75
RBEF0150	4 (101.6)	1.125 (28.575)	0.75 (19.05)	3.13 (79.375)	127
RBEF0160	6 (152.4)	0.75 (19.05)	0.5 (12.7)	5.13 (130.175)	95
RBEF0175	4.5 (114.3)	1.125 (28.575)	0.75 (19.05)	3.63 (92.075)	140
RBEF0180	6.5 (165.1)	0.75 (19.05)	0.5 (12.7)	5.63 (142.875)	100
RBEF0220	6 (152.4)	1.125 (28.575)	0.75 (19.05)	5.13 (130.175)	165
RBEF0225	6.125 (155.575)	1.125 (28.575)	0.75 (19.05)	5.25 (133.35)	175
RBEF0240	6.5 (165.1)	1.125 (28.575)	0.75 (19.05)	5.63 (142.875)	200
RBEF0300	8.5 (215.9)	1.125 (28.575)	0.75 (19.05)	7.63 (193.675)	265
RBEF0375	10.5 (266.7)	1.125 (28.575)	0.75 (19.05)	9.63 (244.475)	300
RBEF0400	8.5 (215.9)	1.625 (41.275)	1.125 (28.575)	7.63 (193.675)	410
RBEF0420	11.75 (298.45)	1.125 (28.575)	0.75 (19.05)	10.88 (276.225)	336
RBEF0500	10.5 (266.7)	1.625 (41.275)	1.125 (28.575)	9.00 (228.6)	525
RBEF0550	11.75 (298.45)	1.625 (41.275)	1.125 (28.575)	10.25 (260.35)	535
RBSF0750	12 (304.8)	2.5 (63.5)	1.75 (44.45)	10.50 (266.7)	1200
RBSF1000	15 (381)	2.5 (63.5)	1.75 (44.45)	13.50 (342.9)	1500
RBSF1500	20 (508)	2.5 (63.5)	1.75 (44.45)	18.50 (469.9)	1900
RBSF2000	20 (508)	3.25 (82.55)	1.75 (44.45)	18.50 (469.9)	3900

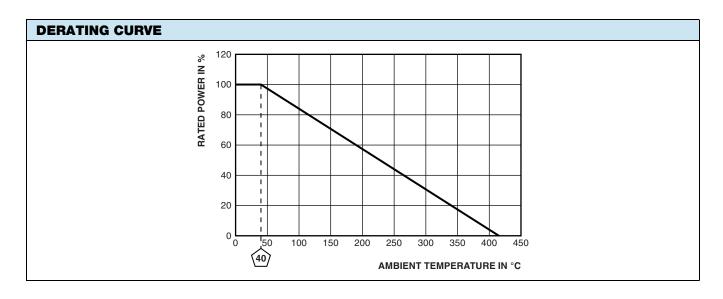
TERMINAL STYLE in inches (millimeters) A C Type D, F, G B Type H B DIMENSIONS D (1/4" LUG) F (3/8" LUG) G (1/2" LUG) H (1/4" SQC)

DIMENSIONS	D (1/4" LUG)	F (3/8" 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)
Diameter (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)



Vishay Milwaukee

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Power rating	W	40 to 200		
Resistance range	Ω	0.01 to 391		
Resistance tolerance	%	10		
TCR	ppm/°C	± 400, ± 180, ± 130, ± 20 (varies by wattage and resistance)		
Operating temperature	°C	-55 to +415		
Temperature rise	°C	375 above an ambient of 40 °C		
Maximum altitude	f.a.s.l. (m.a.s.l.)	derate above 4921 f.a.s.l. (1500 m.a.s.l.)		
Short-term overload (surge)		10 x rated power for 5 s		
Surge windings		available		
Maximum working voltage		(P x R) ^{1/2}		
Insulation resistance	Ω	1M		
Dielectric voltage	V _{RMS}	up to 1500 (upon request)		
Creepage inch (mm) minimum 0.12		minimum 0.125 (3.175), typical (varies by wattage)		
Terminal sleeves		n/a		
Inductance	μΗ	0.1 to 340 (varies by wattage and resistance)		
Non-inductive winding		consult factory: www.vishay.com/milwaukee/contact		
Terminal strength Ib		10		
Electrical or mechanical customization		available: www.vishay.com/doc?31856		



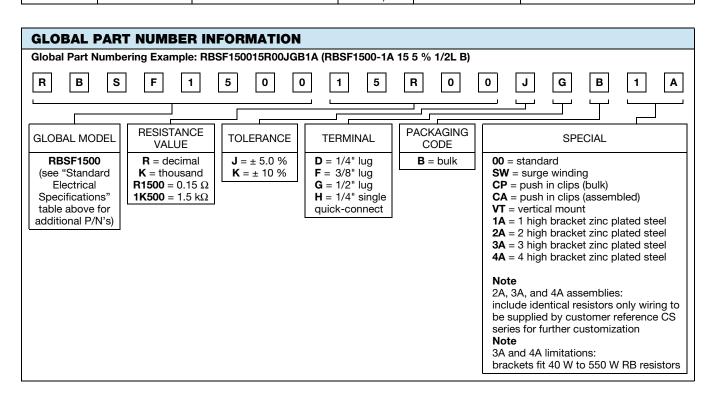
MATERIAL SPECIFICATIONS				
Element copper-nickel, nickel-chrome, iron-chrome-aluminum				
Core cordierite, steatite				
Coating special high temperature silicone or vitreous enamel				
Standard terminals	nickel-iron			
Part marking	value, date code, MRC			



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OPTIONS	EXAMPLE PHOTO	EXAMPLE: 300 W	OPTIONS	EXAMPLE PHOTO	EXAMPLE: 300 W
Standard "00" option		Part number ends with " 00 " example: RBEF0300xxxxxKGB 00	Thru Bolt "VT" option		Part number ends with " VT " example: RBEF0300xxxxxKGB VT
1 High Bracket "1A" option		Part number ends with " <u>1A</u> " example: RBEF0300xxxxxKGB <u>1A</u>	Clips "CP" option		Part number ends with " CP " example: RBEF0300xxxxxKGB CP
2 High Bracket "2A" option		Part number ends with " 2A " example: RBEF0300xxxxxKGB 2A	Adjustable	Sand Sand	Part model starts with " RBEA " example: RBEA 0300xxxxxKFB00
3 High Bracket "3A" option		Part number ends with " <u>3A</u> " example: RBEF0300xxxxxKGB <u>3A</u>	Enclosures		Consult factory for options: vishaymilwaukeeresistor@vishay.com
4 High Bracket "4A" option		Part number ends with " 4A " example: RBEF0300xxxxxKGB 4A	Electrical customizations (TCR, inductance, etc.)		Consult factory for options: vishaymilwaukeeresistor@vishay.com





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Vishay

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