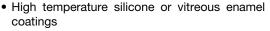




Wirewound Resistors, Industrial Power, Tubular, Roundwire (RD), Fixed (RDEF, RDSF)



FEATURES





• Non-inductive options available

RoHS

- All welded construction
- Wide range of available resistances
- Hardware mounting options and enclosures available
- Wirewound
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

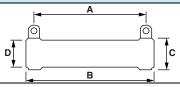
GLOBAL	HISTORICAL	POWER RATING	RESISTANCE RANGE	TOLERANCE	TERMINA	TERMINAL STYLE	
MODEL	MODEL	W	Ω	%	STANDARD	OPTION	
RDEF0008 (1)	5-16-Ω	8	0.82 to 13.5K	5	Α	Н	
RDEF0012 (1)	5-28-Ω	12	0.12 to 49K	5	Α	Н	
RDEF0015 (1)	7-24-Ω	15	0.16 to 28.7K	5	Α	Н	
RDEF0020 (1)	7-32-Ω	20	0.13 to 53.2K	5	Α	Н	
RDEF0025 (1)	9-32-Ω	25	0.22 to 35K	5	D	Н	
RDEF0030 (1)	12-32-Ω	30	0.28 to 29K	5	D	Н	
RDEF0045 (1)	12-48-Ω	45	0.18 to 63K	5	D	Н	
RDEF0050 (1)	9-64-Ω	50	0.21 to 119K	5	D	Н	
RDEF0051 (1)	12-56-Ω	51	0.22 to 83K	5	D	Н	
RDEF0061 (1)	12-64-Ω	61	0.27 to 97K	5	D	Н	
RDEF0065 (1)	12-72-Ω	65	0.31 to 122K	5	D	Н	
RDEF0075 (1)	9-96-Ω	75	0.33 to 207K	5	D	Н	
RDEF0076 (1)	12-80-Ω	76	0.35 to 134K	5	D	Н	
RDEF0080 (1)	18-64-Ω	80	0.06 to 53K	5	F	Н	
RDEF0090 (1)	12-96-Ω	90	0.43 to 172K	5	D	Н	
RDEF0095 (1)	18-80-Ω	95	0.08 to 79K	5	F	Н	
RDEF0100 (1)	12-104-Ω	100	0.47 to 186K	5	D	Н	
RDEF0120 (1)	18-96-Ω	120	0.11 to 100K	5	F	Н	
RDEF0130 (1)	18-104-Ω	130	0.12 to 111K	5	F	Н	
RDEF0160 (1)	18-128-Ω	160	0.15 to 144K	5	F	Н	
RDEF0175 (1)	18-136-Ω	175	0.16 to 156K	5	F	Н	
RDSF0220	26-136-Ω	220	0.21 to 69K	5	G	-	
RDEF0225 (1)	18-168-Ω	225	0.21 to 200K	5	F	Н	
RDEF0235 (1)	18-180-Ω	235	0.22 to 216K	5	F	Н	
RDEF0240 (1)	18-188-Ω	240	0.24 to 227K	5	F	Н	
RDSF0275	26-168-Ω	275	0.27 to 90K	5	G	-	
RDSF0300	26-188-Ω	300	0.31 to 104K	5	G	-	
RDSF0500	40-192-ΩS	500	0.49 to 34K	5	G	-	
RDSF0750	40-240-ΩS	750	0.63 to 44K	5	G	-	
RDSF1000	40-320-ΩS	1000	0.89 to 62K	5	G	-	
RDSF1150	52-320-ΩS	1150	1.14 to 41K	5	G	-	

Note

⁽¹⁾ Vitreous enamel coating is standard (RDEF type), silicone coating is optional (RDSF type).



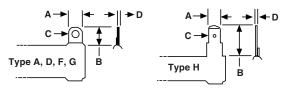
DIMENSIONS in inches (millimeters)



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

		CORE DIMEN	Α	WEIGHT		
GLOBAL MODEL	B LENGTH	C OUTER DIAMETER	D INNER DIAMETER	DISTANCE BETWEEN TERMINAL (REF.)	(TYP.) g	
RDEF0008	1 (25.4)	0.313 (7.95)	0.188 (4.775)	0.63 (15.875)	4	
RDEF0012	1.75 (44.45)	0.313 (7.95)	0.188 (4.775)	1.38 (34.925)	6	
RDEF0015	1.5 (38.1)	0.438 (11.125)	0.313 (7.95)	1.06 (26.9875)	8	
RDEF0020	2 (50.8)	0.438 (11.125)	0.313 (7.95)	1.56 (39.6875)	15	
RDEF0025	2 (50.8)	0.563 (14.3)	0.313 (7.95)	1.50 (38.1)	20	
RDEF0030	2 (50.8)	0.75 (19.05)	0.5 (12.7)	1.50 (38.1)	30	
RDEF0045	3 (76.2)	0.75 (19.05)	0.5 (12.7)	2.50 (63.5)	50	
RDEF0050	4 (101.6)	0.563 (14.3)	0.313 (7.95)	3.50 (88.9)	65	
RDEF0051	3.5 (88.9)	0.75 (19.05)	0.5 (12.7)	3.00 (76.2)	58	
RDEF0061	4 (101.6)	0.75 (19.05)	0.5 (12.7)	3.50 (88.9)	62	
RDEF0065	4.5 (114.3)	0.75 (19.05)	0.5 (12.7)	4.00 (101.6)	68	
RDEF0075	6 (152.4)	0.563 (14.3)	0.313 (7.95)	5.50 (139.7)	90	
RDEF0076	5 (127)	0.75 (19.05)	0.5 (12.7)	4.50 (114.3)	75	
RDEF0080	4 (101.6)	1.125 (28.575)	0.75 (19.05)	3.13 (79.375)	127	
RDEF0090	6 (152.4)	0.75 (19.05)	0.5 (12.7)	5.50 (139.7)	95	
RDEF0095	5 (127)	1.125 (28.575)	0.75 (19.05)	4.13 (104.775)	145	
RDEF0100	6.5 (165.1)	0.75 (19.05)	0.5 (12.7)	6.00 (152.4)	100	
RDEF0120	6 (152.4)	1.125 (28.575)	0.75 (19.05)	5.13 (130.175)	165	
RDEF0130	6.5 (165.1)	1.125 (28.575)	0.75 (19.05)	5.63 (142.875)	200	
RDEF0160	8 (203.2)	1.125 (28.575)	0.75 (19.05)	7.13 (193.675)	225	
RDEF0175	8.5 (215.9)	1.125 (28.575)	0.75 (19.05)	7.63 (177.8)	250	
RDSF0220	8.5 (215.9)	1.625 (41.275)	1.125 (28.575)	7.00 (177.8)	400	
RDEF0225	10.5 (266.7)	1.125 (28.575)	0.75 (19.05)	9.63 (244.475)	270	
RDEF0235	11.25 (285.75)	1.125 (28.575)	0.75 (19.05)	10.38 (263.525)	310	
RDEF0240	11.75 (298.45)	1.125 (28.575)	0.75 (19.05)	10.88 (276.225)	325	
RDSF0275	10.5 (266.7)	1.625 (41.275)	1.125 (28.575)	9.00 (228.6)	500	
RDSF0300	11.75 (298.45)	1.625 (41.275)	1.125 (28.575)	10.25 (260.35)	510	
RDSF0500	12 (304.8)	2.5 (63.5)	1.75 (44.45)	10.50 (266.7)	1000	
RDSF0750	15 (381)	2.5 (63.5)	1.75 (44.45)	13.50 (342.9)	1300	
RDSF1000	20 (508)	2.5 (63.5)	1.75 (44.45)	18.50 (469.9)	1625	
RDSF1150	20 (508)	3.25 (82.55)	1.75 (44.45)	18.50 (469.9)	3800	

TERMINAL STYLE in inches (millimeters)

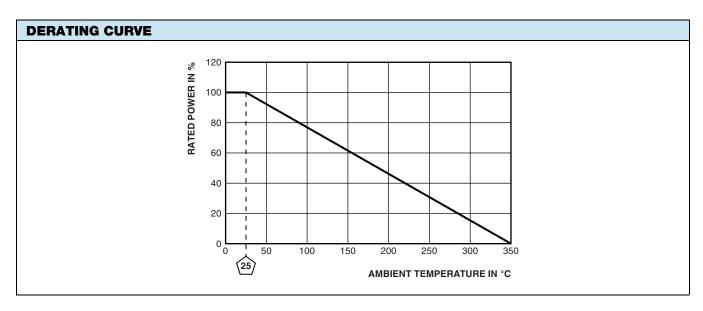


DIMENSIONS	A (3/16" LUG)	D (1/4" LUG)	F (3/8" LUG)	G (1/2" LUG)	H (1/4" SQC)
Width (A)	0.1875 (4.7625)	0.25 (6.35)	0.375 (9.525)	0.5 (12.7)	0.25 (6.35)
Height (B)	0.375 (9.525)	0.5 (12.7)	0.625 (15.875)	0.9375 (23.8125)	0.625 (15.875)
Diameter (C)	0.13 (3.302)	0.17 (4.318)	0.2 (5.08)	0.26 (6.604)	0.065 (1.651)
Thickness (D)	0.02 (0.508)	0.02 (0.508)	0.035 (0.889)	0.046 (1.1684)	0.032 (0.8128)



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TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	RESISTOR CHARACTERISTICS	
Power rating	W	8 to 1150	
Resistance range	Ω	0.12 to 227K	
Resistance tolerance	%	5 for above 1 Ω , 10 below 1 Ω	
TCR	ppm/°C	± 400, ± 180, ± 130, ± 20 (varies by wattage and resistance)	
Operating temperature	°C	-55 to +350	
Temperature rise	°C	325 above an ambient of 25 °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 0.125 (3.175), typical (varies by wattage)	
Terminal sleeves		n/a	
Inductance	μH	0.2 to 10 300 (varies by wattage and resistance)	
Non-inductive winding		available	
Terminal strength	lb	10	
Electrical or mechanical customization		available: www.vishay.com/doc?31857	

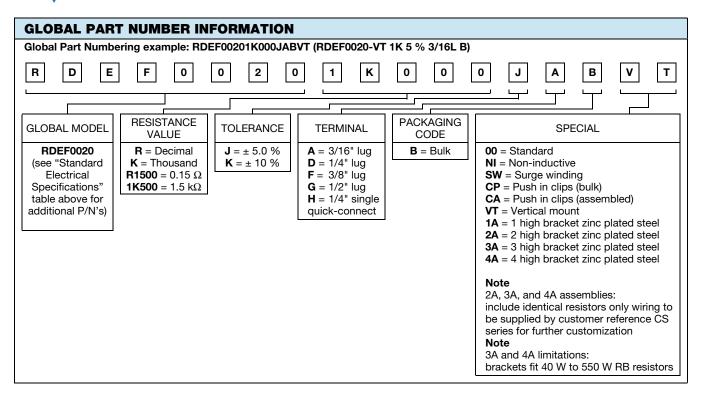


MATERIAL SPECIFICATIONS				
Element	copper-nickel, nickel-chrome, iron-chrome-aluminum			
Core cordierite, steatite				
Coating special high temperature silicone or vitreous enamel				
Standard terminals	nickel-iron			
Part marking	value, date code, MRC			



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