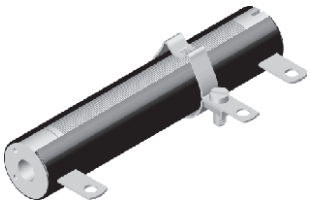
Vitreous Wirewound Resistors



FEATURES

- All welded construction
- Ceramic core
- Models acc. MIL-R-26 available
- Complete vitreous coating for perfect humidity protection
- Available in adjustable = “E” or non inductive design = “Ni”
- TCR 100 ppm/K to 180 ppm/K - WM 110 (Class 3)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{40\,°C}$ W	LIMITING VOLTAGE V	RESISTANCE RANGE Ω E12 = ± 10 % TOL., E24 = ± 5 % TOL. DIN 41432	TOLERANCE ± %
RW 10 x 44	18	400	1 to 36K	10
			7.5 to 36K	5
RW 10 x 44 E	11		1.0 to 1.6K	10
			6.8 to 1.6K	5
RW 10 x 44 Ni	11		6.2 to 2.4K	10, 5
RW 12 x 25	11	120	0.39 to 13K	10
			33 to 13K	5
RW 12 x 38	15	350	1.0 to 33K	10
			5.6 to 33K	5
RW 12 x 38 E	14		4.3 to 1.5K	10
			5.6 to 1.5K	5
RW 12 x 38 Ni	14		5.6 to 2.2K	10, 5
RW 12 x 51	25	600	1.0 to 56K	10
			5.6 to 56K	5
RW 12 x 51 E	17		1.0 to 2.4K	10
			6.8 to 2.4K	5
RW 12 x 51 Ni	17		9.1 to 3.6K	10, 5
RW 12 x 76	45	1000	2.0 to 91K	10
			8.2 to 91K	5
RW 12 x 76 E	27		2.0 to 4.3K	10
			13 to 4.3K	5
RW 12 x 76 Ni	27		16 to 6.2K	10, 5
RW 20 x 76	70	1000	1.0 to 75K	10
			12 to 75K	5
RW 20 x 76 E	42		1.0 to 6.8K	10
			20 to 6.8K	5
RW 20 x 76 Ni	42	1000	24 to 10K	10, 5

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{40\ °C}$ W	LIMITING VOLTAGE V	RESISTANCE RANGE Ω E12 = ± 10 % TOL., E24 = ± 5 % TOL. DIN 41432	TOLERANCE ± %
RW 20 x 102	90	1400	3 to 110K	10
			18 to 110K	5
RW 20 x 102 E	55		3 to 10K	10
			30 to 10K	5
RW 20 x 102 Ni	55		36 to 15K	10, 5
RW 30 x 102	130	1600	2.7 to 160K	10
			24 to 160K	5
RW 30 x 102 E	80		2.7 to 15K	10
			43 to 15K	5
RW 30 x 152	220	2500	4.7 to 200K	10
			33 to 200K	5
RW 30 x 152 E	130		4.7 to 24K	10
			75 to 24 K	5
RW 30 x 203	300	3600	6.8 to 270K	10
			47 to 270K	5
RW 30 x 203 E	180		6.8 to 36K	10
			100 to 36K	5
RW 30 x 267	400	5000	8.2 to 390K	10
			75 to 390K	5
RW 30 x 267 E	240		8.2 to 47K	10
			150 to 47K	5
RW 30 x 305	480	6000	10 to 300K	10
			75 to 300K	5
RW 30 x 305 E	290		10 to 56K	10
			160 to 56K	5
RW 29 (1)	11	400	7.5 to 3.3K	5
RW 30 (1)	11	120	33 to 1.1K	5
RW 31 (1)	14	350	5.6 to 3K	5
RW 32 (1)	17	600	5.6 to 4.7K	5
RW 33 (1)	26	1000	8.2 to 8.2K	5
RW 35 (1)	55	1400	18 to 20K	5
RW 36 (1)	78	1600	24 to 30K	5
RW 37 (1)	113	2500	33 to 47K	5
RW 38 (1)	159	3600	47 to 68 K	5
RW 47 (1)	210	5000	75 to 91K	5

Notes

(1) Model according to MIL-R-26

- For available “Mounting Accessories for Resistors”, please see: www.vishay.com/ppg?21005

PART NUMBER AND PRODUCT DESCRIPTION

Part Number: RW0104411009JLX000

R	W	0	1	0	4	4	1	1	0	0	9	J	L	X	0	0	0

MODEL	SPECIAL CHARACTER	VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL
RW01044 = RW 10/44 **RW01225** = RW 12/25 **RW01238** = RW 12/38 **RW01251** = RW 12/51 **RW01276** = RW 12/76 **RW02076** = RW 20/76 **RW20102** = RW 20/102 **RW30102** = RW 30/102 **RW30152** = RW 30/152 **RW30203** = RW 30/203 **RW30267** = RW 30/267 **RW30305** = RW 30/305 **RW00029** = RW 29 **RW00030** = RW 30 **RW00031** = RW 31 **RW00032** = RW 32 **RW00033** = RW 33 **RW00035** = RW 35 **RW00036** = RW 36 **RW00037** = RW 37 **RW00038** = RW 38 **0RW0047** = RW 47	**0** = Neutral **1** = E **7** = FST **C** = E FST **See also note (1)**	**3 digit value** **1 digit multiplier** MULTIPLIER **7** = $*10^{-3}$ **8** = $*10^{-2}$ **9** = $*10^{-1}$ **0** = $*10^{0}$ **1** = $*10^{1}$ **2** = $*10^{2}$ **3** = $*10^{3}$ **4** = $*10^{4}$	**J** = ± 5.0 % **K** = ± 10.0 %	(see Packaging table)	**000** = Standard **3 digit code** = Special or Ni version (1)

Product Description: RW 10/44 E 10R 5 % LX

RW 10/44	E	10R	5 %	LX
MODEL (2)	SPECIAL CHARACTER (2)	VALUE (2)	TOLERANCE CODE (2)	PACKAGING DESCRIPTION (3)

Notes

(1) For special variants, special winding, or NI version, please contact: ww1resistors@vishay.com
(2) See “Part Number and Product Description”
(3) See “Packaging Table”

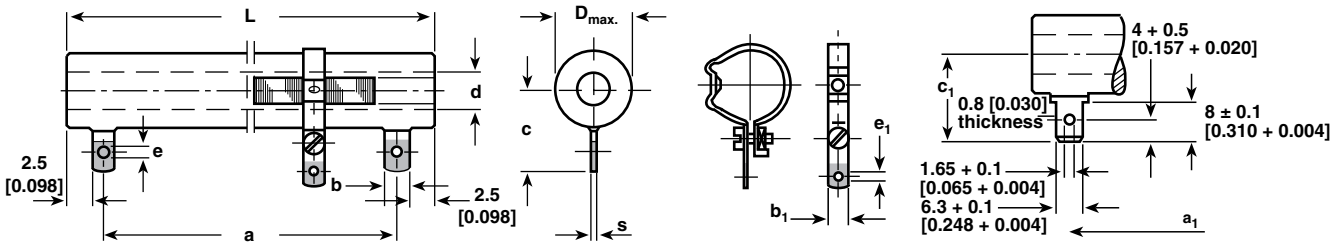
PACKAGING TABLE

MODEL	LOOSE		SPECIAL	
	PACKAGING CODE	PACKAGING DESCRIPTION	PACKAGING CODE	PACKAGING DESCRIPTION
All models (4)	LX	LX Loose pack, without quantity	ZX	ZX Special pack (with BV #), without quantity

Note

(4) See “Standard Electrical Specifications”

DIMENSIONS in millimeters [inches]



Adjustable lug with contact stud

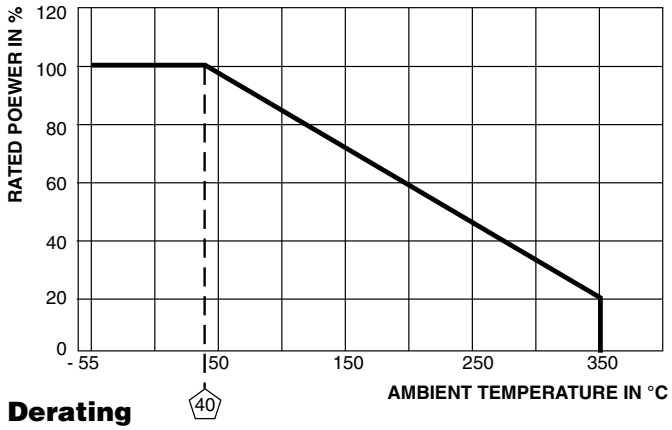
FST A 6.3 mm/DIN 46244 (at end terminals only)

MODEL		RW 10/44 RW 10/44 E RW 10/44 NI RW 29 (2)	RW 12/25 RW 30 (2)	RW 12/38 RW 12/38 E RW 12/38 NI RW 31 (2)	RW 12/51 RW 12/51 E RW 12/51 NI RW 32 (2)	RW 12/76 RW 12/76 E RW 12/76 NI RW 33 (2)	RW 20/76 RW 20/76 E RW 20/76 NI
MM	$D_{max.}$ (1)	12.7 (15.7) [0.5 (0.618)]	15.1 (18.1) [0.595 (0.713)]	15.1 (18.1) [0.595 (0.713)]	15.1 (18.1) [0.595 (0.713)]	15.1 (18.1) [0.595 (0.713)]	23 (26) [0.906 (1.024)]
	L ± 1.6 mm	44.4 [1.748]	25.4 [1.000]	38.1 [1.500]	50.8 [2.000]	76.2 [3.000]	76.2 [3.000]
	a	33.4 [1.315]	14.4 [0.570]	27.1 [1.070]	39.8 [1.570]	65.2 [2.570]	63.2 [2.490]
	a_1	31.4 [1.236]	-	25.1 [0.990]	37.8 [1.490]	63.2 [2.490]	63.2 [2.490]
	b	6 [0.236]	6 [0.240]	6 [0.240]	6 [0.240]	6 [0.240]	8 [0.310]
	b_1	5 [0.197]	-	5 [0.200]	5 [0.200]	5 [0.200]	5 [0.200]
	c	16.5 [0.650]	17.5 [0.690]	17.5 [0.690]	17.5 [0.690]	17.5 [0.690]	22 [0.870]
	c_1	18.5 [0.728]	-	19 [0.750]	19 [0.750]	19 [0.750]	23 [0.910]
	d	4.5 [0.177]	5.5 [0.220]	5.5 [0.220]	5.5 [0.220]	5.5 [0.220]	12 [0.470]
	e	3.2 [0.126]	3.2 [0.130]	3.2 [0.130]	3.2 [0.130]	3.2 [0.130]	4.2 [0.170]
	e_1	2.8 [0.110]	-	3.2 [0.130]	3.2 [0.130]	3.2 [0.130]	3.2 [0.130]
	s	0.6 [0.024]	0.6 [0.020]	0.6 [0.020]	0.6 [0.020]	0.6 [0.020]	0.8 [0.030]
Weight (g)		10	10	10	15	15	30
MODEL		RW 20/102 RW 20/102 E RW 20/102 NI RW 35 (2)	RW 30/102 RW 30/102 E RW 36 (2)	RW 30/152 RW 30/152 E RW 37 (2)	RW 30/203 RW 30/203 RW 38 (2)	RW 30/267 RW 30/267 E RW 47 (2)	RW 30/305 RW 30/305 E
MM	$D_{max.}$ (1)	23 (26) [0.906 (1.024)]	33.3 (36.3) [1.310 (1.430)]	33.3 (36.3) [1.310 (1.430)]	33.3 (36.3) [1.310 (1.430)]	33.3 (36.3) [1.310 (1.430)]	33.3 (36.3) [1.310 (1.430)]
	L ± 1.6 mm	101.6 [4.000]	101.6 [4.000]	152.4 [6.000]	203.2 [8.000]	266.7 [10.50]	304.8 [12.00]
	a	88.6 [3.490]	88.6 [3.490]	139.4 [5.490]	190.2 [7.490]	253.7 [9.990]	291.8 [11.49]
	a_1	88.6 [3.490]	88.6 [3.490]	139.4 [5.490]	190.2 [7.490]	253.7 [9.990]	291.8 [11.49]
	b	8 [0.310]	8 [0.310]	8 [0.310]	8 [0.310]	8 [0.310]	8 [0.310]
	b_1	5 [0.200]	8 [0.310]	8 [0.310]	8 [0.310]	8 [0.310]	8 [0.310]
	c	22 [0.870]	31 [1.220]	31 [1.220]	31 [1.220]	31 [1.220]	31 [1.220]
	c_1	23 [0.910]	27 [1.060]	27 [1.060]	27 [1.060]	27 [1.060]	27 [1.060]
	d	12 [0.470]	18.5 [0.730]	18.5 [0.730]	18.5 [0.730]	18.5 [0.730]	18.5 [0.730]
	e	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]
	e_1	3.2 [0.130]	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]	4.2 [0.170]
	s	0.8 [0.030]	0.8 [0.030]	0.8 [0.030]	0.8 [0.030]	0.8 [0.030]	0.8 [0.030]
Weight (g)		62	136	200	260	330	430

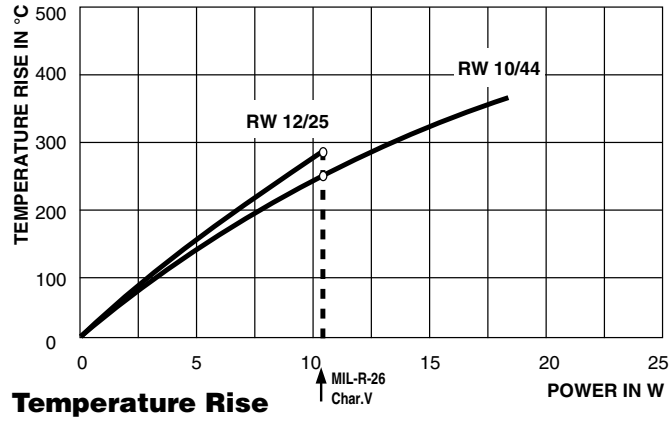
Notes

(1) Numbers in (parenthesis) represent the Dimension Dmax. for resistor produced with corrugated ribbon

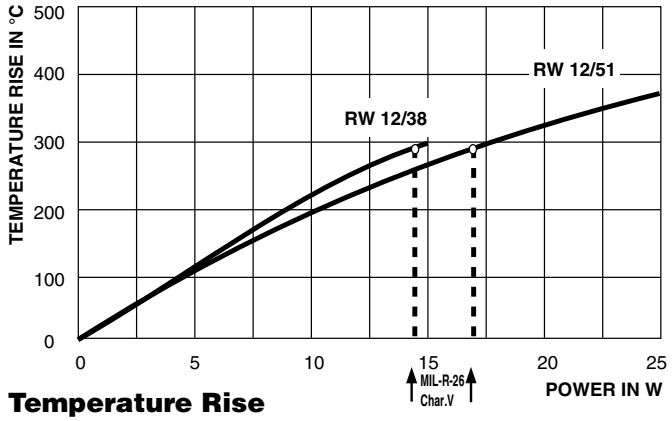
(2) Model according to MIL-R-26



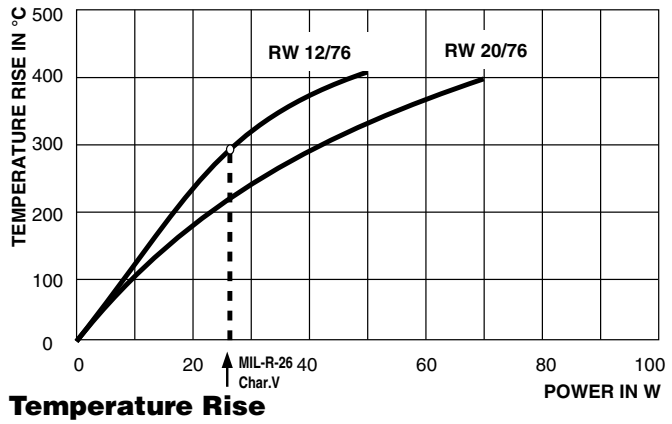
Derating



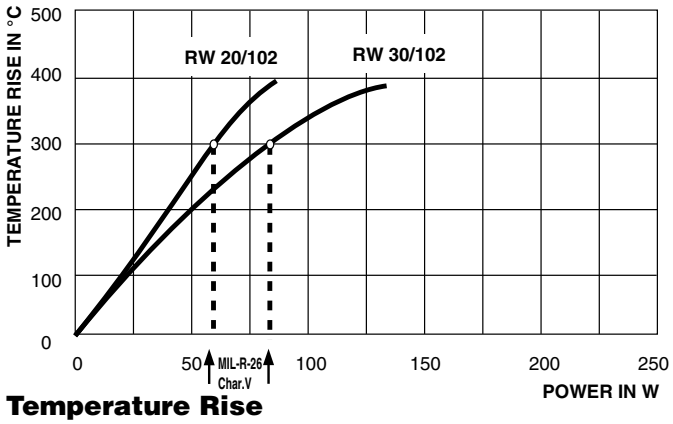
Temperature Rise



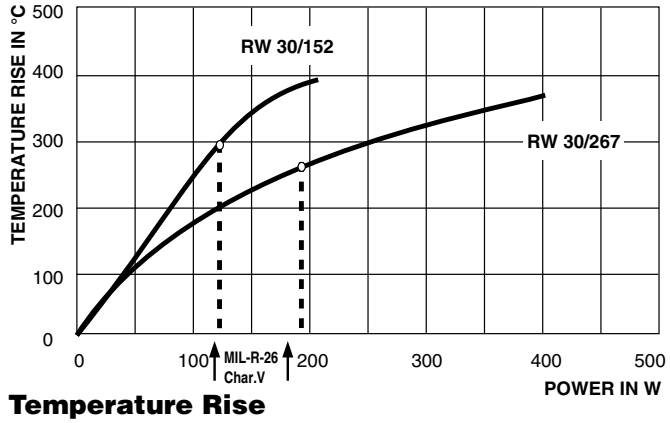
Temperature Rise



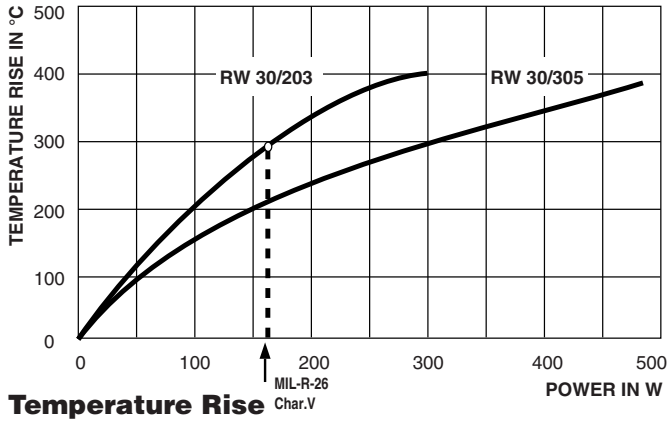
Temperature Rise



Temperature Rise



Temperature Rise



Temperature Rise

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