



The DNA of tech.®

INDUSTRIAL WIREWOUND RESISTORS

Vitreous Coated

Vitreous Coated Wirewound Resistors



FEATURES

- A wide range of high power ratings (4 W to 1000 W)
- Resistance range (0.1 Ω to 651 k Ω)
- Low / high temperature performance (-55 °C to +415 °C)
- Fire-proof construction
- High quality ceramic core
- Perfect humidity protection
- Outstanding endurance
- Adjustable and non-inductive styles available

RESOURCES





- For available military standard, visit www.vishay.com/doc?21005
- For technical questions on:
 - Vishay Draloric products contact ww1resistors@vishay.com
 - Vishay Milwaukee products contact ww2resistors@vishay.com
 - Vishay Huntington products contact ww2dresistors@vishay.com
 - Vishay MCB products contact mcbfixedresistors@vishay.com



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Product	Global Model	Wattage	Resistance Range	Tolerance (± %) ⁽¹⁾	TCR (ppm/K) ⁽²⁾	Applications
Vishay Draloric GBS 	GBS 20 / 100	80 W	0.13 Ω to 6.2 Ω	5 / 10	-10 to -80 / +100 to +180, +650 to +750	
	GBS 20 / 100E	50 W	0.13 Ω to 6.2 Ω			
	GBS 20 / 165	160 W	0.27 Ω to 12 Ω			
	GBS 20 / 165E	100 W	0.27 Ω to 12 Ω			
	GBS 20 / 265	300 W	0.47 Ω to 22 Ω			
	GBS 20 / 265E	180 W	0.47 Ω to 22 Ω			
	GBS 30 / 100	150 W	0.10 Ω to 8.2 Ω			
	GBS 30 / 100E	90 W	0.10 Ω to 8.2 Ω			
	GBS 30 / 133	200 W	0.15 Ω to 12 Ω			
	GBS 30 / 133E	120 W	0.15 Ω to 12 Ω			
	GBS 30 / 165	250 W	0.20 Ω to 16 Ω			
	GBS 30 / 165E	150 W	0.20 Ω to 16 Ω			
	GBS 30 / 215	300 W	0.27 Ω to 24 Ω			
	GBS 30 / 215E	200 W	0.27 Ω to 24 Ω			
GBS 30 / 265	375 W	0.30 Ω to 27 Ω				
GBS 30 / 265E	250 W	0.30 Ω to 27 Ω				
GBS 30 / 330	450 W	0.39 Ω to 36 Ω				
GBS 30 / 330E	350 W	0.39 Ω to 36 Ω				
GBS 45 / 370	750 W	0.75 Ω to 56 Ω				
GBS 45 / 370E	550 W	0.75 Ω to 56 Ω				
GBS 60 / 370	1000 W	0.91 Ω to 75 Ω				
GBS 60 / 370E	700 W	0.91 Ω to 75 Ω				
Vishay Draloric GWK 	GWK 10	10 W	1.8 Ω to 16 kΩ	2 / 5 / 10	100 to 180	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Brake resistors • Power supplies • Welding equipment • Rail systems • Voltage dividers • Converters • Automotive
	GWK 10Ni	7 W	2.4 Ω to 1 kΩ	5 / 10		
	GWK 20	20 W	2.2 Ω to 27 kΩ	2 / 5 / 10		
	GWK 20Ni	13 W	4.7 Ω to 1.8 kΩ	5 / 10		
	GWK 40	30 W	3.3 Ω to 43 kΩ	2 / 5 / 10		
	GWK 40Ni	20 W	6.8 Ω to 2.7 kΩ	5 / 10		
	GWK 60	40 W	6.2 Ω to 82 kΩ	2 / 5 / 10		
	GWK 60Ni	25 W	13 Ω to 5.1 kΩ	5 / 10		
	GWK 100	80 W	8.2 Ω to 82 kΩ	2 / 5 / 10		
	GWK 100Ni	50 W	27 Ω to 10 kΩ	5 / 10		
GWK 150	100 W	12 Ω to 110 kΩ	2 / 5 / 10			
GWK 150Ni	60 W	36 Ω to 15 kΩ	5 / 10			
GWK 200	160 W	20 Ω to 180 kΩ	2 / 5 / 10			
GWK 200Ni	100 W	56 Ω to 22 kΩ	5 / 10			
GWK 300	260 W	36 Ω to 330 kΩ	2 / 5 / 10			
GWK 300Ni	180 W	100 Ω to 43 kΩ	5 / 10			
Vishay Draloric G200 	G202	4 W	0.10 Ω to 10 kΩ on request	2 / 5 / 10 1	100 to 180	
	G204	7 W	0.10 Ω to 39 kΩ on request	2 / 5 / 10 1		
	G206	13 W	0.15 Ω to 68 kΩ on request	2 / 5 / 10 1		
	G207	17 W	0.20 Ω to 120 kΩ on request	2 / 5 / 10 1		
Vishay Draloric GWS 	GWS 15	15 W	4.3 Ω to 20 kΩ	2 / 3 / 5 / 10	100 to 180	
	GWS 15E	10 W	4.3 Ω to 620 Ω	5 / 10		
	GWS 15Ni	10 W	5.1 Ω to 910 Ω	5 / 10		
	GWS 20	20 W	3.6 Ω to 30 kΩ	2 / 5 / 10		
	GWS 20E	15 W	4.3 Ω to 1 kΩ	5 / 10		
	GWS 20Ni	15 W	5.1 Ω to 1.3 kΩ	5 / 10		
	GWS 25	25 W	3.6 Ω to 39 kΩ	2 / 3 / 5 / 10		
GWS 25E	18 W	5.1 Ω to 1.3 kΩ	5 / 10			
GWS 25Ni	18 W	6.8 Ω to 1.8 kΩ	5 / 10			

Notes


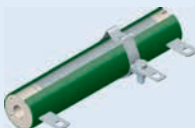
- E = adjustable; Ni = non-inductive
- ⁽¹⁾ Ohmic values are not available in all tolerances and TC values. For more details, please refer to the related datasheet at www.vishay.com or contact your local sales office
- ⁽²⁾ MIL standard available, please visit www.vishay.com/doc?21005



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Product	Global Model	Wattage	Resistance Range	Tolerance (± %) ⁽¹⁾	TCR (ppm/K) ⁽²⁾	Applications
Vishay Draloric GWS 	GWS 35	30 W	5.1 Ω to 47 kΩ	2 / 5 / 10	100 to 180	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Brake resistors • Power supplies • Welding equipment • Rail systems • Voltage dividers • Converters • Automotive
	GWS 35E	22 W	6.8 Ω to 1.6 kΩ	5 / 10		
	GWS 35Ni	22 W	8.2 Ω to 2.4 kΩ	5 / 10		
	GWS 50	40 W	3.3 Ω to 62 kΩ	2 / 3 / 5 / 10		
	GWS 50E	30 W	8.2 Ω to 2 kΩ	5 / 10		
	GWS 50Ni	30 W	10 Ω to 3 kΩ	5 / 10		
	GWS 75	65 W	7.5 Ω to 130 kΩ	2 / 3 / 5 / 10		
	GWS 75E	45 W	18 Ω to 3.9 kΩ	5 / 10		
	GWS 75Ni	45 W	22 Ω to 6.2 kΩ	5 / 10		
	GWS 100	80 W	6.8 Ω to 110 kΩ	2 / 3 / 5 / 10		
	GWS 100E	60 W	13 Ω to 5.1 kΩ	5 / 10		
	GWS 100Ni	60 W	24 Ω to 6.8 kΩ	5 / 10		
	GWS 30 / 100	150 W	9.1 Ω to 100 kΩ	2 / 5 / 10		
GWS 30 / 100E	110 W	22 Ω to 8.2 kΩ	5 / 10			
GWS 220	160 W	13 Ω to 160 kΩ	2 / 3 / 5 / 10			
GWS 220E	120 W	30 Ω to 10 kΩ	5 / 10			
GWS 220Ni	120 W	51 Ω to 16 kΩ	5 / 10			
GWS 30 / 133	200 W	13 Ω to 160 kΩ	2 / 5 / 10			
GWS 30 / 133E	130 W	36 Ω to 13 kΩ	5 / 10			
GWS 300	300 W	24 Ω to 300 kΩ	2 / 3 / 5 / 10			
GWS 300E	200 W	56 Ω to 20 kΩ	5 / 10			
GWS 300Ni	200 W	100 Ω to 30 kΩ	5 / 10			
GWS 500	500 W	39 Ω to 270 kΩ	2 / 3 / 5 / 10			
GWS 500E	300 W	100 Ω to 36 kΩ	5 / 10			
Vishay Draloric RW ** 	RW 10 / 44	18 W	1 Ω to 36 kΩ	5 / 10		
	RW 10 / 44E	11 W	1 Ω to 1.6 kΩ			
	RW 10 / 44Ni	11 W	6.2 Ω to 2.4 kΩ			
	RW 12 / 25	11 W	0.39 Ω to 13 kΩ			
	RW 12 / 38	15 W	1 Ω to 33 kΩ			
	RW 12 / 38E	14 W	4.3 Ω to 1.5 kΩ			
	RW 12 / 38Ni	14 W	5.6 Ω to 2.2 kΩ			
	RW 12 / 51	25 W	1 Ω to 56 kΩ			
	RW 12 / 51E	17 W	1 Ω to 2.4 kΩ			
	RW 12 / 51Ni	17 W	9.1 Ω to 3.6 kΩ			
	RW 12 / 76	45 W	2 Ω to 4.3 kΩ			
	RW 12 / 76E	27 W	2 Ω to 91 kΩ			
	RW 12 / 76Ni	27 W	16 Ω to 6.2 kΩ			
	RW 20 / 76	70 W	1 Ω to 75 kΩ			
	RW 20 / 76E	42 W	1 Ω to 6.8 kΩ			
	RW 20 / 76Ni	42 W	24 Ω to 10 kΩ			
	RW 20 / 102	90 W	3 Ω to 110 kΩ			
	RW 20 / 102E	55 W	3 Ω to 10 kΩ			
	RW 20 / 102Ni	55 W	36 Ω to 15 kΩ			
	RW 30 / 102	130 W	2.7 Ω to 160 kΩ			
RW 30 / 102E	80 W	2.7 Ω to 15 kΩ				
RW 30 / 152	220 W	4.7 Ω to 200 kΩ				
RW 30 / 152E	130 W	4.7 Ω to 24 kΩ				
RW 30 / 203	300 W	6.8 Ω to 270 kΩ				
RW 30 / 203E	180 W	6.8 Ω to 36 kΩ				
RW 30 / 267	400 W	8.2 Ω to 390 kΩ				
RW 30 / 267E	240 W	8.2 Ω to 47 kΩ				
RW 30 / 305	480 W	10 Ω to 300 kΩ				
RW 30 / 305E	290 W	10 Ω to 56 kΩ				

Notes

- E = adjustable; Ni = non-inductive

⁽¹⁾ Ohmic values are not available in all tolerances and TC values.

For more details, please refer to the related datasheet at www.vishay.com or contact your local sales office



⁽²⁾ MIL standard available, please visit www.vishay.com/doc?21005



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Product	Global Model	Historical Model	Wattage	Resistance Range	Tol.	TCR (ppm/°C) ⁽¹⁾	Applications
Vishay Milwaukee RBEF 	RBEF0040	9-32-ΩR	40 W	0.01 Ω to 10.6 Ω	± 5 %, ± 10 %	± 400, ± 180, ± 82, ± 20	<ul style="list-style-type: none"> • Grid resistors • DC/DC converters • AC/DC inverters • High voltage bleeders • Dynamic braking • Bias supplies • Motor speed controls • Voltage divider networks • Capacitor charging / discharging regulation • Filament dropping • Voltage dropping • Electrical loads • Crowbar circuits • Current shunts
	RBEF0050	12-32-ΩR	50 W	0.02 Ω to 8.2 Ω			
	RBEF0075	12-48-ΩR	75 W	0.01 Ω to 19.3 Ω			
	RBEF0090	9-64-ΩR	90 W	0.015 Ω to 28.3 Ω			
	RBEF0100	12-56-ΩR	100 W	0.012 Ω to 24.5 Ω			
	RBEF0110	12-64-ΩR	110 W	0.015 Ω to 30.6 Ω			
	RBEF0120	12-72-ΩR	120 W	0.018 Ω to 36.8 Ω			
	RBEF0135	12-80-ΩR	135 W	0.021 Ω to 42.9 Ω			
	RBEF0150	18-64-ΩR	150 W	0.019 Ω to 44.8 Ω			
	RBEF0160	12-96-ΩR	160 W	0.027 Ω to 55 Ω			
	RBEF0175	18-72-ΩR	175 W	0.023 Ω to 53.7 Ω			
	RBEF0180	12-104-ΩR	180 W	0.03 Ω to 61.3 Ω			
	RBEF0220	18-96-ΩR	220 W	0.035 Ω to 80.6 Ω			
	RBEF0225	18-98-ΩR	225 W	0.036 Ω to 82.8 Ω			
	RBEF0240	18-104-ΩR	240 W	0.038 Ω to 89.5 Ω			
	RBEF0300	18-136-ΩR	300 W	0.054 Ω to 125 Ω			
	RBEF0375	18-168-ΩR	375 W	0.069 Ω to 161 Ω			
	RBEF0400	23-136-ΩR	400 W	0.061 Ω to 159 Ω			
	RBEF0420	18-188-ΩR	420 W	0.079 Ω to 184 Ω			
RBEF0500	26-168-ΩR	500 W	0.081 Ω to 210 Ω				
RBEF0550	26-188-ΩR	550 W	0.093 Ω to 242 Ω				
Vishay Milwaukee RDEF 	RDEF0008	5-16-Ω	8 W	0.82 Ω to 13.5 kΩ	± 5 %, ± 10 %	± 400, ± 180, ± 130, ± 20	<ul style="list-style-type: none"> • Grid resistors • DC/DC converters • AC/DC inverters • High voltage bleeders • Dynamic braking • Bias supplies • Motor speed controls • Voltage divider networks • Capacitor charging / discharging regulation • Filament dropping • Voltage dropping • Electrical loads • Crowbar circuits • Current shunts
	RDEF0012	5-28-Ω	12 W	0.12 Ω to 49 kΩ			
	RDEF0015	7-24-Ω	15 W	0.16 Ω to 28.7 kΩ			
	RDEF0020	7-32-Ω	20 W	0.13 Ω to 53.2 kΩ			
	RDEF0025	9-32-Ω	25 W	0.22 Ω to 35 kΩ			
	RDEF0030	12-32-Ω	30 W	0.28 Ω to 29 kΩ			
	RDEF0045	12-48-Ω	45 W	0.18 Ω to 63 kΩ			
	RDEF0050	9-64-Ω	50 W	0.21 Ω to 119 kΩ			
	RDEF0051	12-56-Ω	51 W	0.22 Ω to 83 kΩ			
	RDEF0061	12-64-Ω	61 W	0.27 Ω to 97 kΩ			
	RDEF0065	12-72-Ω	65 W	0.31 Ω to 122 kΩ			
	RDEF0075	9-96-Ω	75 W	0.33 Ω to 207 kΩ			
	RDEF0076	12-80-Ω	76 W	0.35 Ω to 134 kΩ			
	RDEF0080	18-64-Ω	80 W	0.06 Ω to 53 kΩ			
	RDEF0090	12-96-Ω	90 W	0.43 Ω to 172 kΩ			
	RDEF0095	18-80-Ω	95 W	0.08 Ω to 79 kΩ			
	RDEF0100	12-104-Ω	100 W	0.47 Ω to 186 kΩ			
	RDEF0120	18-96-Ω	120 W	0.11 Ω to 100 kΩ			
	RDEF0130	18-104-Ω	130 W	0.12 Ω to 111 kΩ			
RDEF0160	18-128-Ω	160 W	0.15 Ω to 144 kΩ				
RDEF0175	18-136-Ω	175 W	0.16 Ω to 156 kΩ				

Note




⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value



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Product	Global Model	Historical Model	Wattage	Resistance Range	Tol.	TCR (ppm/°C) ⁽¹⁾	Applications
Vishay Milwaukee RDEF 	RDEF0225	18-168-Ω	225 W	0.21 Ω to 200 kΩ	± 5 %, ± 10 %	± 400, ± 180, ± 130, ± 20	<ul style="list-style-type: none"> • Grid resistors • DC/DC converters • AC/DC inverters • High voltage bleeders • Dynamic braking • Bias supplies • Motor speed controls • Voltage divider networks • Capacitor charging / discharging regulation • Filament dropping • Voltage dropping • Electrical loads • Crowbar circuits • Current shunts
	RDEF0235	18-180-Ω	235 W	0.22 Ω to 216 kΩ			
	RDEF0240	18-188-Ω	240 W	0.24 Ω to 227 kΩ			
Vishay Milwaukee RBEA 	RBEA0090	9-64-ΩRA	90 W	0.014 Ω to 25.3 Ω	± 5 %, ± 10 %	± 400, ± 180, ± 82, ± 20	
	RBEA0100	12-56-ΩRA	100 W	0.011 Ω to 20.7 Ω			
	RBEA0110	12-64-ΩRA	110 W	0.014 Ω to 26.8 Ω			
	RBEA0120	12-72-ΩRA	120 W	0.017 Ω to 32.9 Ω			
	RBEA0135	12-80-ΩRA	135 W	0.020 Ω to 39 Ω			
	RBEA0150	18-64-ΩRA	150 W	0.018 Ω to 39 Ω			
	RBEA0160	12-96-ΩRA	160 W	0.027 Ω to 51.3 Ω			
	RBEA0175	18-72-ΩRA	175 W	0.022 Ω to 48.1 Ω			
	RBEA0180	12-104-ΩRA	180 W	0.030 Ω to 57.4 Ω			
	RBEA0220	18-96-ΩRA	220 W	0.035 Ω to 75 Ω			
	RBEA0225	18-98-ΩRA	225 W	0.036 Ω to 77.2 Ω			
	RBEA0240	18-104-ΩRA	240 W	0.039 Ω to 83.9 Ω			
	RBEA0300	18-136-ΩRA	300 W	0.055 Ω to 120 Ω			
	RBEA0375	18-168-ΩRA	375 W	0.072 Ω to 156 Ω			
RBEA0400	23-136-ΩRA	400 W	0.062 Ω to 149 Ω				
RBEA0420	18-188-ΩRA	420 W	0.082 Ω to 178 Ω				
RBEA0500	26-168-ΩRA	500 W	0.083 Ω to 200 Ω				
RBEA0550	26-188-ΩRA	550 W	0.097 Ω to 232 Ω				
Vishay Milwaukee RDEA 	RDEA0012	5-28-ΩA	12 W	0.27 Ω to 10.6 kΩ	± 5 %	± 400, ± 180, ± 130, ± 20	
	RDEA0025	9-32-ΩA	25 W	0.50 Ω to 19 kΩ			
	RDEA0030	12-32-ΩA	30 W	0.66 Ω to 26 kΩ			
	RDEA0045	12-48-ΩA	45 W	1.21 Ω to 49 kΩ			
	RDEA0050	9-64-ΩA	50 W	1.34 Ω to 54 kΩ			
	RDEA0051	12-56-ΩA	51 W	1.49 Ω to 61 kΩ			
	RDEA0061	12-64-ΩA	61 W	1.77 Ω to 73 kΩ			
	RDEA0065	12-72-ΩA	65 W	2.04 Ω to 84 kΩ			
	RDEA0075	9-96-ΩA	75 W	2.18 Ω to 89 kΩ			
	RDEA0076	12-80-ΩA	76 W	2.32 Ω to 96 kΩ			
	RDEA0080	18-64-ΩA	80 W	0.40 Ω to 48 kΩ			
	RDEA0090	12-96-ΩA	90 W	2.87 Ω to 119 kΩ			
	RDEA0095	18-80-ΩA	95 W	0.56 Ω to 79 kΩ			
	RDEA0100	12-104-ΩA	100 W	3.15 Ω to 131 kΩ			
	RDEA0120	18-96-ΩA	120 W	0.71 Ω to 100 kΩ			
	RDEA0130	18-104-ΩA	130 W	0.78 Ω to 111 kΩ			
RDEA0160	18-128-ΩA	160 W	1 Ω to 144 kΩ				

Note
⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value



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Vishay Milwaukee RDEA 	RDEA0175	18-136-ΩA	175 W	1.08 Ω to 156 kΩ	± 5 %	± 400, ± 180, ± 130, ± 20	<ul style="list-style-type: none"> • Grid resistors • DC/DC converters • AC/DC inverters • High voltage bleeders • Dynamic braking • Bias supplies • Motor speed controls • Voltage divider networks • Capacitor charging / discharging regulation • Filament dropping • Voltage dropping • Electrical loads • Crowbar circuits • Current shunts
	RDEA0225	18-168-ΩA	225 W	1.38 Ω to 200 kΩ			
	RDEA0235	18-180-ΩA	235 W	1.49 Ω to 216 kΩ			
	RDEA0240	18-188-ΩA	240 W	1.56 Ω to 227 kΩ			
Vishay Huntington AVE 	AVE0050	AVE-50	50 W	1 Ω to 3.8 Ω	± 5 %, ± 10 %	± 260, ± 400	
	AVE0100	AVE-100	100 W	1 Ω to 6.1 Ω			
	AVE0110	AVE-110	110 W	1 Ω to 7.4 Ω			
	AVE0120	AVE-120	120 W	1 Ω to 8.6 Ω			
	AVE0155	AVE-155	155 W	1 Ω to 12.5 Ω			
	AVE0240	AVE-240	240 W	1 Ω to 18 Ω			
	AVE0300	AVE-300	300 W	1 Ω to 25 Ω			
	AVE0375	AVE-375	375 W	1 Ω to 32 Ω			
AVE0420	AVE-420	420 W	1 Ω to 35.8 Ω				
Vishay Huntington AVT 	AVT010	AVT-10	12 W	0.1 Ω to 10.2 kΩ	± 5 %, ± 10 %	± 260, ± 400	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Dynamic braking • High voltage bleeders • Power supplies • Welding equipment • Rail systems • Voltage drivers • Converters • Automotive
	AVT025	AVT-25	25 W	0.1 Ω to 23 kΩ			
	AVT25A	AVT-25A	30 W	0.1 Ω to 25.3 kΩ			
	AVT25B	AVT-25B	30 W	0.1 Ω to 28 kΩ			
	AVT050	AVT-50	50 W	0.1 Ω to 57 kΩ			
	AVT50A	AVT-50A	60 W	0.1 Ω to 74 kΩ			
	AVT50B	AVT-50B	70 W	0.1 Ω to 130 kΩ			
	AVT075	AVT-75	75 W	0.1 Ω to 91 kΩ			
	AVT75A	AVT-75A	90 W	0.1 Ω to 118 kΩ			
	AVT100	AVT-100	100 W	0.1 Ω to 132 kΩ			
	AVT130	AVT-130	130 W	0.1 Ω to 192 kΩ			
	AVT160	AVT-160	160 W	0.1 Ω to 398 kΩ			
AVT200	AVT-200	200 W	0.1 Ω to 337 kΩ				
Vishay Huntington CMV 	CMV16	CMV-16	16 W	1 Ω to 59 kΩ	± 5 %, ± 10 %	± 260, ± 400	
	CMV20	CMV-20	20 W	1 Ω to 95 kΩ			
	CMV22	CMV-22	22 W	1 Ω to 105 kΩ			
Vishay Huntington FVE	FVE0050	FVE-50	50 W	0.1 Ω to 4.1 Ω	± 5 %, ± 10 %	± 260, ± 400	
	FVE0090	FVE-90	90 W	0.1 Ω to 14.1 Ω			
	FVE0100	FVE-100	100 W	0.1 Ω to 12.2 Ω			

Note



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Product	Global Model	Historical Model	Wattage	Resistance Range	Tol.	TCR (ppm/°C) ⁽¹⁾	Applications
Vishay Huntington FVE 	FVE0110	FVE-110	110 W	0.1 Ω to 15.4 Ω	± 5 %, ± 10 %	± 260, ± 400	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Dynamic braking • High voltage bleeders • Power supplies • Welding equipment • Rail systems • Voltage drivers • Converters • Automotive
	FVE0120	FVE-120	120 W	0.1 Ω to 18.4 Ω			
	FVE0155	FVE-155	155 W	0.1 Ω to 22.4 Ω			
	FVE0240	FVE-240	240 W	0.1 Ω to 44.75 Ω			
	FVE0300	FVE-300	300 W	0.1 Ω to 62.5 Ω			
	FVE0375	FVE-375	375 W	0.1 Ω to 80.5 Ω			
	FVE0420	FVE-420	420 W	0.1 Ω to 92 Ω			
	FVE0500	FVE-500	500 W	0.1 Ω to 121 Ω			
Vishay Huntington FVT 	FVT005	FVT-5	5 W	0.1 Ω to 20.5 kΩ	± 5 %, ± 10 %	± 260, ± 400	
	FVT005...NI	FVT-5-...-NI	5 W	1 Ω to 750 Ω			
	FVT010	FVT-10	10 W	0.1 Ω to 22.3 kΩ			
	FVT010...NI	FVT-10-...-NI	10 W	1 Ω to 2.79 kΩ			
	FVT020	FVT-20	20 W	0.1 Ω to 95 kΩ			
	FVT020...NI	FVT-20-...-NI	20 W	1 Ω to 4.8 kΩ			
	FVT025	FVT-25	25 W	0.1 Ω to 44.6 kΩ			
	FVT025...NI	FVT-25-...-NI	25 W	1 Ω to 6.18 kΩ			
	FVT025A	FVT-25A	30 W	0.1 Ω to 56 kΩ			
	FVT025A...NI	FVT-25A-...-NI	30 W	1 Ω to 7.25 kΩ			
	FVT025B	FVT-25B	30 W	0.1 Ω to 49 kΩ			
	FVT025B...NI	FVT-25B-...-NI	30 W	1 Ω to 6.8 kΩ			
	FVT050	FVT-50	50 W	0.1 Ω to 114 kΩ			
	FVT050...NI	FVT-50-...-NI	50 W	1 Ω to 15.1 kΩ			
	FVT050A	FVT-50A	60 W	0.1 Ω to 149 kΩ			
	FVT050A...NI	FVT-50A-...-NI	60 W	1 Ω to 19.1 kΩ			
	FVT050B	FVT-50B	70 W	0.1 Ω to 173 kΩ			
	FVT050B...NI	FVT-50B-...-NI	70 W	1 Ω to 22.1 kΩ			
	FVT075	FVT-75	75 W	0.1 Ω to 276 kΩ			
	FVT075...NI	FVT-75-...-NI	75 W	1 Ω to 35 kΩ			
	FVT075A	FVT-75A	90 W	0.1 Ω to 238 kΩ			
	FVT075A...NI	FVT-75A-...-NI	90 W	1 Ω to 31 kΩ			
	FVT100	FVT-100	100 W	0.1 Ω to 267 kΩ			
	FVT100...NI	FVT-100-...-NI	100 W	1 Ω to 34 kΩ			
	FVT130	FVT-130	130 W	0.1 Ω to 387 kΩ			
	FVT130...NI	FVT-130-...-NI	130 W	1 Ω to 49.3 kΩ			
	FVT160	FVT-160	175 W	0.1 Ω to 510 kΩ			
	FVT160...NI	FVT-160-...-NI	175 W	1 Ω to 78.8 kΩ			
FVT200	FVT-200	225 W	0.1 Ω to 651 kΩ				
FVT200...NI	FVT-200-...-NI	225 W	1 Ω to 85.4 kΩ				

Note

⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value



INDUSTRIAL WIREWOUND RESISTORS

Vitreous Coated

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Product	Global Model	Historical Model	Wattage	Resistance Range	Tol.	TCR (ppm/°C) ⁽¹⁾	Applications
Vishay Huntington FVT with Ferrule Caps  Refer to datasheet for ordering with ferrule cap termination option	FVT-5	FVT005	5 W	0.1 Ω to 20.5 kΩ	± 5 %, ± 10 %	± 260, ± 400	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Dynamic braking • High voltage bleeders • Power supplies • Welding equipment • Rail systems • Voltage drivers • Converters • Automotive
	FVT-5-...-NI	FST005...NI	5 W	1 Ω to 750 kΩ			
	FVT-10	FVT010	12 W	0.1 Ω to 22.3 kΩ			
	FVT-10-...-NI	FVT010...NI	12 W	1 Ω to 2.79 kΩ			
	FVT-25A	FVT25A	30 W	0.1 Ω to 56 kΩ			
	FVT-25A-...-NI	FVT25A...NI	30 W	1 Ω to 7.25 kΩ			
	FVT-50A	FVT50A	60 W	0.1 Ω to 149 kΩ			
	FVT-50A-...-NI	FVT50A...NI	60 W	1 Ω to 19.1 kΩ			
	FVT-50B	FVT50B	70 W	0.1 Ω to 176 kΩ			
	FVT-50B-...-NI	FVT50B...NI	70 W	1 Ω to 22.1 kΩ			
	FVT-75A	FVT75A	90 W	0.1 Ω to 238 kΩ			
	FVT-75A-...-NI	FVT75A...NI	90 W	1 Ω to 31 kΩ			
	FVT-100	FVT100	100 W	0.1 Ω to 267 kΩ			
FVT-100-...-NI	FVT100...NI	100 W	1 Ω to 34 kΩ				
Vishay Sfernice RA 	RA 13 x 70	–	21	33 Ω to 3.9 kΩ	10 %	75	<ul style="list-style-type: none"> • Filters • Capacitors discharge • Brake resistors • Power supplies • Welding equipment • Rail systems • Voltage dividers • Converters"
	RA 16 x 94	–	35	68 Ω to 3.9 kΩ			
	RA 20 x 117	–	50	100 Ω to 4.7 kΩ			
	RA 25 x 138	–	75	150 Ω to 6.8 kΩ			
	RA 25 x 168	–	120	220 Ω to 10 kΩ			
	RA 30 x 250	–	180	330R to 22 kΩ			
Vishay Sfernice RSO 	RSO 25 x 138	–	10	1 Ω to 10 kΩ	5 %	75	
	RSO 25 x 168	–	17	1 Ω to 27 kΩ			
	RSO 30 x 250	–	28	2.2 Ω to 56 kΩ			
	RSO 40 x 370	–	44	2.2 Ω to 56 kΩ			
	RSO 50 x 373	–	72	2.7 Ω to 68K			
Vishay Sfernice RSSD 	RSSD 08 x 34	–	16	0.12 Ω to 10 Ω	5 %, 10 %, 20 %	75	
	RSSD 10 x 50	–	25	0.12 Ω to 22 Ω			
	RSSD 13 x 70	–	42	0.12 Ω to 43 Ω			
	RSSD 16 x 94	–	70	0.33 Ω to 75 Ω			
	RSSD 20 x 117	–	100	0.22 Ω to 100 Ω			
	RSSD 25 x 138	–	140	0.10 Ω to 150 Ω			
	RSSD 25 x 168	–	200	0.12 Ω to 220 Ω			
	RSSD 30 x 250	–	280	0.22 Ω to 360 Ω			
	RSSD 40 x 370	–	450	0.47 Ω to 470 Ω			
	RSSD 50 x 373	–	600	0.68 Ω to 560 Ω			
Vishay Sfernice RW 	RW 08 x 34	–	10	1 Ω to 10 kΩ	5 %	75	
	RW 10 x 50	–	17	1 Ω to 27 kΩ			
	RW 13 x 70	–	28	2.2 Ω to 56 kΩ			
	RW 16 x 94	–	44	2.2 Ω to 56 kΩ			
	RW 20 x 117	–	72	2.7 Ω to 68 kΩ			

Note





⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value



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Product	Global Model	Historical Model	Wattage	Resistance Range	Tol.	TCR (ppm/°C) ⁽¹⁾	Applications
Vishay Sfernice RWM 	RWM 8 x 26	–	8	0.1 Ω to 27 kΩ	1 %, 2 %, 5 %	75	<ul style="list-style-type: none"> • Filters • Capacitors discharge • Brake resistors • Power supplies • Welding equipment • Rail systems • Voltage dividers • Converters
	RWM 6 x 34	–	8	0.33 Ω to 36 kΩ			
	RWM 8 x 34	–	11	0.33 Ω to 36 kΩ			
	RWM 8 x 45	–	11	0.47 Ω to 62 kΩ			
	RWM 10 x 45	–	25	0.47 Ω to 62 kΩ			
	RWM 10 x 64	–	25	0.68 Ω to 100 kΩ			
	RWM 10 x 65	–	30	0.68 Ω to 100 kΩ			
Vishay Sfernice RWST 	RWST 25 x 138	–	110	2.7 Ω to 82 kΩ	5 %	75	
	RWST 25 x 168	–	180	2.7 Ω to 100 kΩ			
	RWST 30 x 250	–	320	4.7 Ω to 220 kΩ			
	RWST 40 x 370	–	600	8.2 Ω to 360 kΩ			
	RWST 50 x 373	–	800	12 Ω to 430 kΩ			
	RWST 25 x 138	–	110	22 Ω to 2.5 kΩ			
	RWST 25 x 168	–	180	22 Ω to 4 kΩ			
	RWST 30 x 250	–	320	120 Ω to 6.8 kΩ			
	RWST 40 x 370	–	600	120 Ω to 8.2 kΩ			
RWST 50 x 373	–	800	150 Ω to 8.2 kΩ				
Vishay MCB VNF 	VNF 42 X 362	–	600 W	8.2 Ω to 470 kΩ	± 5 %	75 (typ.)	
	VNF 42 X 362 A	–	600 W	8.2 Ω to 1.5 kΩ			
	VNF 30 X 250	–	320 W	4.7 Ω to 390 kΩ			
	VNF 30 X 250 A	–	320 W	4.7 Ω to 820 kΩ			
	VNF 30 X 153	–	200 W	3.3 Ω to 270 kΩ			
	VNF 30 X 153 A	–	200 W	3.3 Ω to 560 Ω			
	VNF 25 X 168	–	180 W	2.7 Ω to 270 kΩ			
	VNF 25 X 168 A	–	180 W	2.7 Ω to 680 Ω			
	VNF 25 X 138	–	145 W	2.7 Ω to 180 kΩ			
	VNF 25 X 138 A	–	145 W	2.7 Ω to 470 Ω			
	VNF 25 X 110	–	120 W	2.7 Ω to 120 kΩ			
	VNF 25 X 110 A	–	120 W	2.7 Ω to 330 Ω			
	VNF 25 X 84	–	85 W	2.2 Ω to 82 kΩ			
	VNF 25 X 84 A	–	85 W	2.2 Ω to 180 Ω			
	VNF 13 X 70	–	35 W	2.2 Ω to 56 kΩ			
	VNF 13 X 70 A	–	35 W	2.2 Ω to 220 Ω			
VNF 10 X 52	–	22 W	1 Ω to 33 kΩ				
VNF 10 X 52 A	–	22 W	1 Ω to 150 Ω				
Vishay MCB VNB 	VNB 30 X 250	–	320 W	4.7 Ω to 390 kΩ	± 5 %	75 (typ.)	
	VNB 30 X 250 A	–	320 W	4.7 Ω to 820 Ω			
	VNB 30 X 153	–	200 W	3.3 Ω to 270 kΩ			
	VNB 30 X 153 A	–	200 W	3.3 Ω to 560 Ω			
	VNB 25 X 168	–	180 W	2.7 Ω to 270 kΩ			
VNB 25 X 168 A	–	180 W	2.7 Ω to 680 Ω				




Note⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value



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Product	Global Model	Historical Model	Wattage	Resistance Range	Tol.	TCR (ppm/°C) ⁽¹⁾	Applications
Vishay MCB VNB 	VNB 25 X 138	–	145 W	2.7 Ω to 180 kΩ	± 5 %	75 (typ.)	
	VNB 25 X 138 A	–	145 W	2.7 Ω to 470 Ω			
	VNB 25 X 110	–	120 W	2.7 Ω to 120 kΩ			
	VNB 25 X 110 A	–	120 W	2.7 Ω to 330 Ω			
	VNB 25 X 84	–	85 W	2.2 Ω to 82 kΩ			
	VNB 25 X 84 A	–	85 W	2.2 Ω to 180 Ω			
	VNB 20 X 117	–	90 W	2.7 Ω to 120 kΩ			
	VNB 20 X 117 A	–	90 W	2.7 Ω to 390 Ω			
	VNB 16 X 94	–	55 W	2.2 Ω to 68 kΩ			
	VNB 16 X 94 A	–	55 W	2.2 Ω to 270 Ω			
	VNB 13 X 70	–	35 W	2.2 Ω to 56 kΩ			
	VNB 13 X 70 A	–	35 W	2.2 Ω to 220 Ω			
VNB 10 X 52	–	22 W	1 Ω to 33 kΩ				
VNB 10 X 52 A	–	22 W	1 Ω to 150 Ω				
Vishay MCB VNN 	VNN 42 X 362	–	600 W	8.2 Ω to 470 kΩ	± 5 %	75 (typ.)	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Capacitor precharge • Power supplies • Welding equipment • Railway converters • Converters
	VNN 42 X 362 A	–	600 W	8.2 Ω to 1.5 kΩ			
	VNN 30 X 250	–	320 W	4.7 Ω to 390 kΩ			
	VNN 30 X 250 A	–	320 W	4.7 Ω to 820 Ω			
	VNN 30 X 153	–	200 W	3.3 Ω to 270 kΩ			
	VNN 30 X 153 A	–	200 W	3.3 Ω to 560 Ω			
	VNN 25 X 168	–	180 W	2.7 Ω to 270 kΩ			
	VNN 25 X 168 A	–	180 W	2.7 Ω to 680 Ω			
	VNN 25 X 138	–	145 W	2.7 Ω to 180 kΩ			
	VNN 25 X 138 A	–	145 W	2.7 Ω to 470 Ω			
	VNN 25 X 110	–	120 W	2.7 Ω to 120 kΩ			
	VNN 25 X 110 A	–	120 W	2.7 Ω to 330 Ω			
	VNN 25 X 84	–	85 W	2.2 Ω to 82 kΩ			
	VNN 25 X 84 A	–	75 W	2.2 Ω to 180 Ω			
	VNN 20 X 117	–	90 W	2.7 Ω to 120 kΩ			
	VNN 20 X 117 A	–	90 W	2.7 Ω to 390 Ω			
	VNN 16 X 94	–	55 W	2.2 Ω to 68 kΩ			
	VNN 16 X 94 A	–	55 W	2.2 Ω to 270 Ω			
VNN 13 X 70	–	35 W	2.2 Ω to 56 kΩ				
VNN 13 X 70 A	–	35 W	1 Ω to 220 Ω				
VNN 10 X 52	–	22 W	1 Ω to 33 kΩ				
VNN 10 X 52 A	–	22 W	1 Ω to 150 Ω				
Vishay MCB VCF 	VCF 50 X 370	–	1000 W	0.39 Ω to 68 Ω	± 5 %, ± 10 %	180 (typ.)	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Capacitor precharge • Dynamic braking • Power supplies • Welding equipment • Rail systems • Converters
	VCF 42 X 362	–	700 W	0.33 Ω to 56 Ω			
	VCF 30 X 250	–	350 W	0.22 Ω to 33 Ω			
	VCF 30 X 153	–	220 W	0.18 Ω to 22 Ω			
	VCF 25 X 168	–	200 W	0.1 Ω to 18 Ω			
	VCF 25 X 138	–	160 W	0.068 Ω to 12 Ω			
	VCF 25 X 110	–	130 W	0.068 to 10 Ω			
	VCF 25 X 84	–	90 W	0.068 Ω to 8.2 Ω			

Note


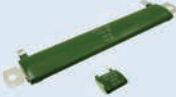

⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value



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Vishay MCB VCN 	VCN 50 X 370	–	1000 W	0.39 Ω to 68 Ω	± 5 %, ± 10 %	180 (typ.)	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Capacitor precharge • Dynamic braking • Power supplies • Welding equipment • Rail systems • Converters
	VCN 42 X 362	–	700 W	0.33 Ω to 56 Ω			
	VCN 30 X 250	–	350 W	0.22 Ω to 33 Ω			
	VCN 30 X 153	–	220 W	0.18 Ω to 22 Ω			
	VCN 25 X 168	–	200 W	0.1 Ω to 18 Ω			
	VCN 25 X 138	–	160 W	0.068 Ω to 12 Ω			
	VCN 25 X 110	–	130 W	0.068 Ω to 10 Ω			
	VCN 25 X 84	–	90 W	0.068 Ω to 8.2 Ω			
Vishay MCB VNPC 	VNPC 150	–	150 W	4.7 Ω to 100 kΩ	± 5 %	75 (typ.)	<ul style="list-style-type: none"> • Capacitor discharge • Power supplies • Welding equipment • Rail systems • Converters
	VNPC 120	–	120 W	3.9 Ω to 68 kΩ			
	VNPC 90	–	90 W	2.7 Ω to 47 kΩ			
	VNPC 50	–	50 W	1.8 Ω to 22 kΩ			
	VNPC 30	–	30 W	1 Ω to 8.2 kΩ			
Vishay MCB CT 	C52T	–	900 W	8.2 Ω to 100 kΩ	± 5 %, ± 10 %	75 (typ.)	<ul style="list-style-type: none"> • Filters • Capacitor discharge • Capacitor precharge • Dynamic braking • Power supplies • Welding equipment • Rail systems • Converters
	C52T LI	–	900 W	0.33 Ω to 270 Ω			
	C42T	–	480 W	1 Ω to 56 kΩ			
	C38T	–	270 W	1 Ω to 27 kΩ			

Note

⁽¹⁾ TCR is dependent on ohmic value. Please refer to datasheet for TCR value