

When limited space is a consideration, choose Ohmite's "thin" stackable 250 Type resistors. These oval-shaped ceramic-core resistors feature a low profile to permit installation in spaces with height restrictions. They are also equipped with integral mounting brackets so they can be fastened to a chassis and stacked in locations with limited surface area.

When properly fastened, the mounting brackets add a heat sinking benefit resulting in a smaller size per watt. Durable 250 Type resistors are fully welded and coated with lead free vitreous enamel.

FEATURES

- Small size-to-power ratio.
- Stackable
- Integral mounting bracket conducts heat to mounting surface.
- Low profile for use in equipment where space is limited.

- All-welded construction.
- RoHS compliant product available. Add "E" suffix to part number to specify.

SPECIFICATIONS

Material

Coating: Lead free vitreous enamel.

Core: Ceramic.

Terminals: Tinned lug with hole.

Derating: Linearly from 100% @ +25°C to 0% @ +350°C.

Electrical

Tolerance: ±5% (J)

Power rating: Based on mounting a single resistor on a metal surface measuring 10" (254mm) square by 0.04" (1.016mm) thick. Reduce rating by 15% when mounting on non-metallic surface.

Overload: 10x rated wattage for 5 seconds if max. voltage is not exceeded.

Temperature coefficient:

1 to 20Ω: ±400 ppm/°C.

Over 20Ω: ±260 ppm/°C

Dielectric withstanding

voltage: 500 VAC: 10 and 20 watt rating. 1000 VAC: 30, 40 and 55 watt rating (measured from lug to mounting bracket)

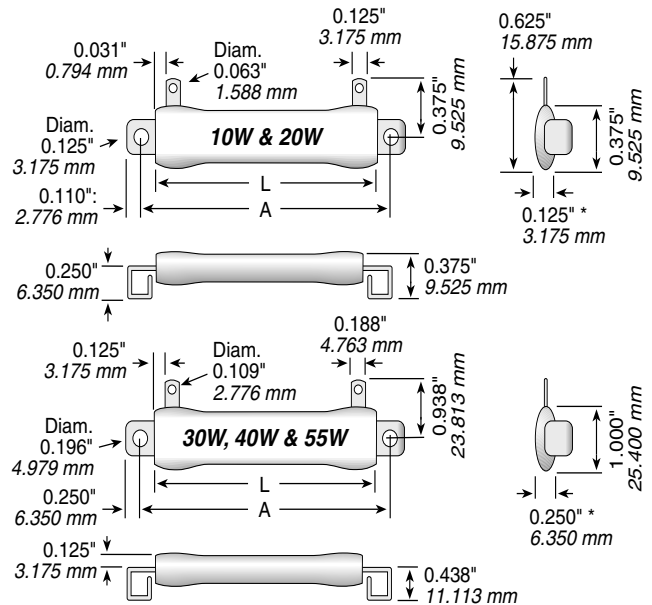
To calculate max. amps: use the formula $\sqrt{P/R}$



250 Series

'Thin' Stackohm®

Vitreous Enamel Power



*Reference dimension only; varies according to resistance value.

Note: When resistors are stacked, use washers or spacers as required to insure clearance and improve power dissipation.

ORDERING INFO

Series	RoHS Compliant
F 20 J 1 R 0 E	
Coating	Wattage
Blank = Vitreous	C = Centohm
S = Silicone	
Tolerance	Ohms
F = 1%	1R0 = 1 Ω
H = 3%	250 = 250 Ω
J = 5%	1K0 = 1,000 Ω
K = 10%	25K = 25,000 Ω
	25K5 = 25,500 Ω

MADE-TO-ORDER PARTS

See web-site for custom core info	Terminal Type	Tolerance	RoHS Compliant
See "Resistor Terminals for Tubular Cores"	J = 5%		
2 5 3 0 T E 5 7 B 1 R 0 0 J E			
Series	Wattage & Core Code	Mounting Brackets	Ohms
Vitreous enamel:	25 = 250 Fixed	B = Stacking box	Example: 1R00 = 1 Ω
26 = 260 Adjustable	See "Core and Terminal Selection"	S = Stacking stud, std. height	250R = 250 Ω
Silicone ceramic:		H = Stacking stud high	1K00 = 1,000 Ω
45 = 450 Fixed		U = Unit type	25K0 = 25,000 Ω
46 = 460 Adjustable			25K5 = 25,500 Ω

Series	Wattage	Ohms	Dimensions (in. /mm)		Max. Voltage*
			Length L	Length A	
F10	10	1.0-15K	0.750 / 19.050	1.000 / 25.400	187
F20	20	1.0-50K	2.000 / 50.800	2.313 / 58.750	815
F30	30	1.0-10K	1.250 / 31.750	2.000 / 50.800	281
F40	40	1.0-25K	2.000 / 50.800	2.750 / 69.850	655
F55	55	1.0-30K	3.500 / 88.900	4.250 / 107.950	1405

Adjustable versions available. Consult Ohmite.

Other sizes available. Consult Ohmite.

Also available in low cost Centohm or Silicone coating. Consult Ohmite.

* Maximum Voltage is based on Ohm's Law $[V=\sqrt{P \cdot R}]$ as limited by the resistance value of specified product

STANDARD PART NUMBERS FOR 250 SERIES

Wattage							Wattage							Wattage							✓ = Standard values; check availability using the worldwide inventory search at www.ohmite.com
Ohmic value	Part No. Prefix ▶ Suffix ▼	10	20	30	40	55	Ohmic value	Part No. Prefix ▶ Suffix ▼	10	20	30	40	55	Ohmic value	Part No. Prefix ▶ Suffix ▼	10	20	30	40	55	
1	—1R0E	✓	✓	✓	✓	✓	50	—50RE	✓		✓	✓	✓	1,500	—1K5E	✓	✓	✓		✓	
1.5	—1R5E			✓	✓	✓	75	—75RE			✓		✓	2,000	—2K0E		✓		✓	✓	
2	—2R0E	✓	✓	✓	✓	✓	100	—100E	✓	✓	✓	✓	✓	2,500	—2K5E	✓	✓	✓	✓	✓	
3	—3R0E			✓	✓	✓	150	—150E		✓			✓	3,000	—3K0E	✓		✓	✓	✓	
4	—4R0E				✓	✓	200	—200E	✓		✓	✓	✓	4,000	—4K0E			✓	✓	✓	
5	—5R0E	✓	✓	✓	✓	✓	250	—250E		✓	✓	✓	✓	5,000	—5K0E		✓				
7.5	—7R5E	✓			✓	✓	300	—300E		✓			✓	6,000	—6K0E						
10	—10RE	✓	✓		✓	✓	400	—400E	✓			✓	✓	7,500	—7K5E		✓				
15	—15RE	✓		✓			500	—500E	✓	✓	✓	✓	✓	10,000	—10KE				✓	✓	
20	—20RE	✓					750	—750E			✓		✓	15,000	—15KE				✓	✓	
25	—25RE	✓	✓	✓	✓	✓	800	—800E		✓				20,000	—20KE				✓		
30	—30RE	✓					1,000	—1K0E	✓	✓	✓	✓	✓	25,000	—25KE				✓		
40	—40RE					✓	1,250	—1K25E	✓	✓				40,000	—40KE	✓					

✓ = Standard values; check availability using the worldwide inventory search at www.ohmite.com