

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. RoHS solder composition is 96% Sn, 3.5% Ag, 0.5% Cu

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)

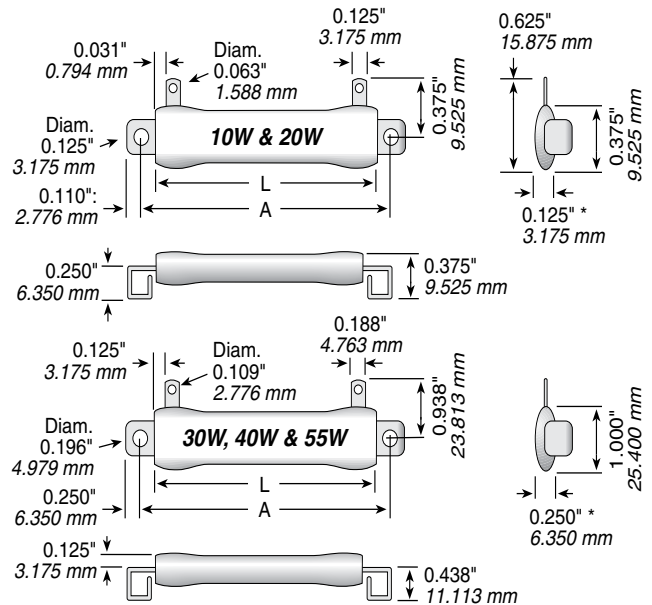
To calculate max. amps: use the formula $\sqrt{P/R}$



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:	See "Core and Terminal Selection"	(user supplies bracket for core TB)	Example:
25 = 250 Fixed		B = Stacking box	1R00 = 1 Ω
26 = 260 Adjustable		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						
Ohmic value	Part No.	10	20	30	40	55	Ohmic value	Part No.	10	20	30	40	55	Ohmic value	Part No.	10	20	30	40	55
	Prefix Suffix	F10J	F20J	F30J	F40J	F55J		Prefix Suffix	F10J	F20J	F30J	F40J	F55J		Prefix Suffix	F10J	F20J	F30J	F40J	F55J
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																				

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