

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 minimal height. 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 Jan. 2006 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 .04" (1.016mm) thick. Reduce rating by 15% when mounting on non-metallic surface.

Overload: 5 times rated wattage for 5 seconds.

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)

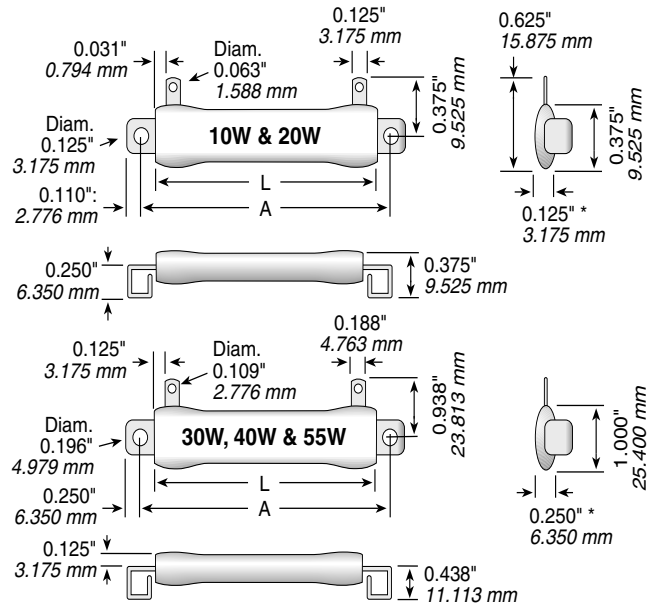
To calculate max. amps: use the formula $\sqrt{P/R}$

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

250 Series

'Thin' Stackohm®

Vitreous Enamel Power Resistors



*Reference dimension only; varies according to resistance value

Series	Wattage	Ohms	Dimensions (in. /mm)		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 factory.
Other sizes available. Consult factory.
Also available in low cost Centohm coating. Consult Factory.

STOCK PART NUMBERS FOR STANDARD RESISTANCE VALUES

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	—1R0	✓	✚	✓	✚	✚	125	—125	✚					3,000	—3K0	✚	✚	✓	✓	✓
1.5	—1R5			✓	✚	✚	150	—150		✓				3,500	—3K5					
2	—2R0	✓	✓		✚	✚	200	—200	✓	✚	✓	✓	✚	4,000	—4K0	✚	✚	✓	✚	✓
3	—3R0			✚	✓	✓	250	—250	✚	✓	✓	✚	✚	5,000	—5K0	✚	✓	✚	✚	✚
4	—4R0				✚	✓	300	—300	✚	✓				6,000	—6K0		✚			
5	—5R0	✚	✚	✓	✚	✚	400	—400	✚	✚	✚	✓	✓	7,500	—7K5		✓	✚	✚	✚
7.5	—7R5	✓			✓	✚	500	—500	✓	✓	✓	✚	✓	10,000	—10K			✚	✓	✓
10	—10R	✓	✓	✚	✓	✚	600	—600	✚					12,500	—12K5		✚			
15	—15R	✓	✚	✚			750	—750	✚		✓	✓	✚	15,000	—15K		✚		✓	✚
20	—20R	✓					800	—800		✓				20,000	—20K		✚		✓	✚
25	—25R	✚	✚	✚	✚	✚	1,000	—1K0	✓	✚	✚	✓	✓	25,000	—25K	✚			✓	✚
30	—30R	✓					1,250	—1K25	✓	✓				30,000	—30K	✚				
40	—40R	✚	✚	✚	✚	✓	1,500	—1K5	✓	✓	✚	✚	✓	35,000	—35K	✚				✚
50	—50R	✓	✚	✓	✓	✓	1,750	—1K75	✚					40,000	—40K	✓				
75	—75R	✚	✚	✚	✚	✚	2,000	—2K0	✚	✓	✚	✚	✚	50,000	—50K	✚				
100	—100	✚	✓	✚	✚	✓	2,500	—2K5	✓	✓	✓	✓	✓							

✚ = Most popular stock values

✓ = Stock values

✚ = Non-stock values subject to minimum handling charge per item

Shaded values involve very fine resistance wire and should not be used in critical applications without burn-in and/or thermal cycling.