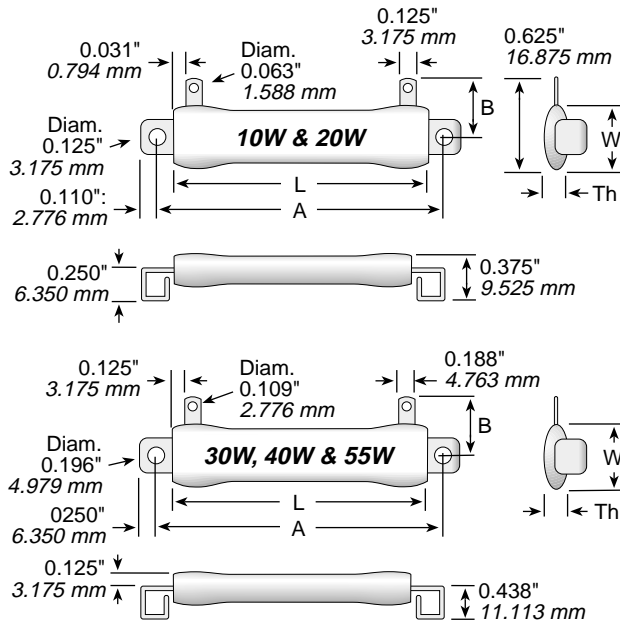


# 250 Series

## 'Thin' Stackohm® Vitreous Enamel Power Resistors



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.

### 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)  
**Powerrating:** 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.  
**Temperaturecoefficient:**  
 1 to 20 ohms: ±400 ppm/°C.  
 Over 20 ohms: ±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.

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

Ohmic value	Wattage					Ohmic value	Wattage					Ohmic value	Wattage					
	Part No. Prefix > Suffix <	10	20	30	40		55	Part No. Prefix > Suffix <	10	20	30		40	55	Part No. Prefix > Suffix <	10	20	30
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.