

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.

- 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.

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: $\pm 5\%$ (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:

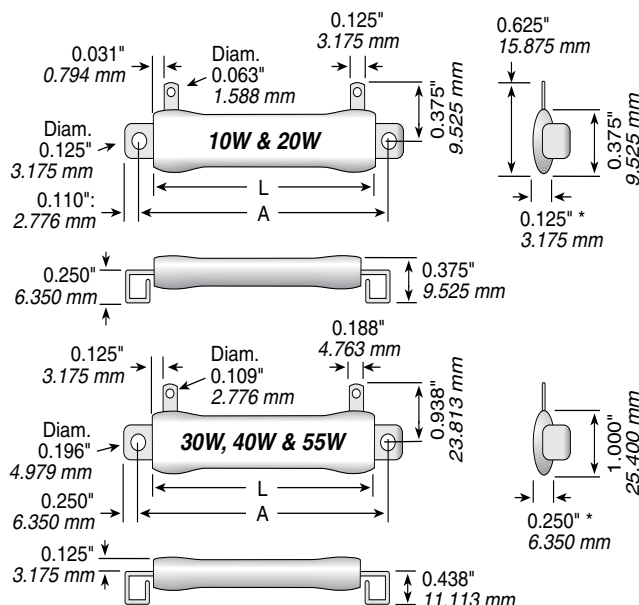
1 to 20Ω: ±400 ppm/°C.
Over 20Ω: ±260 ppm/°C

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 $\sqrt{P/R}$



'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.

Series		RoHS Compliant	
	F 2 0 J 1 R 0 E		
Coating	Wattage	Tolerance	Ohms
Blank = Vitreous		F = 1%	1R0 = 1 Ω
C = Centohm		H = 3%	250 = 250 Ω
S = Silicone		J = 5%	1K0 = 1,000 Ω
		K = 10%	25K = 25,000 Ω
			25K5 = 25,500 Ω

See website for custom core info

Terminal Type

Tolerance
J = 5%

RoHS Compliant

2530TE57B1R00JE

Series
Vitreous enamel:
25 = 250 Fixed
26 = 260 Adjustable
Silicone ceramic:
45 = 450 Fixed
46 = 460 Adjustable

Wattage & Core Code
See "Core and Terminal Selection"

Mounting Brackets
(user supplies bracket for core TB)
B = Stacking box
S = Stacking stud, std. height
H = Stacking stud high
U = Unit type

Ohms
Example:
1R00 = 1 Ω
250R = 250 Ω
1K00 = 1,000 Ω
25K0 = 25,000 Ω
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 $[V=\sqrt{P \times R}]$ as limited by the resistance value of specified product

Wattage							Wattage							Wattage						
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
		F10J	F20J	F30J	F40J	F55J			F10J	F20J	F30J	F40J	F55J			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