

# FLAT POWER WIREWOUND RESISTORS, 40 - 450 WATT

## FW SERIES - Wirewound FWE SERIES - Edgewound



Term. W is  
RoHS  
compliant  
& 260°C  
compatible



- Widest range in the industry!
- Stackable, low profile design
- High power-to-size ratio
- Flameproof silicone coating (UL-94V0)
- Tapped versions, custom sizes and terminations avail.

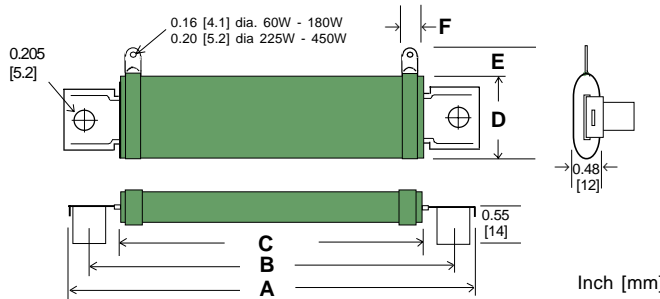
### OPTIONS

- Option X: Non-inductive
- Option EQ: 24-hour burn-in at full rated power

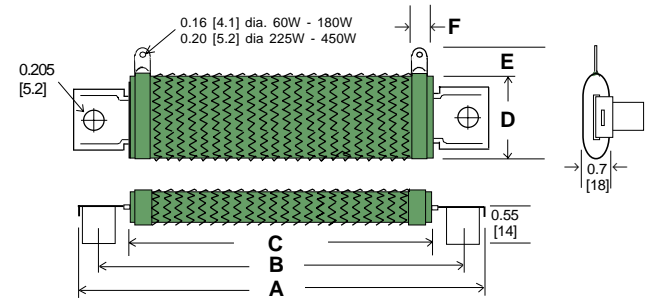
### High power flat wound construction, low cost!

Unique oval-shaped ceramic core construction offers a low profile body for minimal height installation. Available in a wide range of power ratings from 40W to 450W. Feature all-welded construction and integral mounting brackets, allows stackable mounting configurations for increased power ratings. Series FWE (edgewound) offers highest size-to-power ratio making it ideally suited for load testing, power distribution, high power instrumentation, etc.

### FW SERIES



### FWE SERIES (EDGEWOUND VERSION)



### SPECIFICATIONS

RCD Type	Wattage @ 25°C	Resistance Range <sup>1</sup> (Ω)	A	B	C	D	E	F
FW40	40W	0.1 - 5K	3.26 [83]	2.75 [70]	1.97 [50]	1.14 [29]	.5 [12.7]	.27 [7]
FW55	55W	0.1 - 6K	4.84 [123]	4.33 [110]	3.54 [90]	1.14 [29]	.5 [12.7]	.27 [7]
FW70	70W	0.1 - 7K	6.0 [153]	5.5 [140]	4.72 [120]	1.14 [29]	.5 [12.7]	.27 [7]
FW95	95W	0.1 - 10K	7.2 [183]	6.69 [170]	5.9 [150]	1.14 [29]	.5 [12.7]	.27 [7]
FW120	120W	0.1 - 15K	8.58 [218]	8.07 [205]	7.28 [185]	1.14 [29]	.5 [12.7]	.27 [7]
FW150	150W	0.1 - 18K	8.58 [218]	8.07 [205]	7.28 [185]	1.42 [36]	.53 [13.5]	.35 [9]
FW200	200W	0.1 - 25K	9.56 [243]	9.05 [230]	8.26 [210]	1.42 [36]	.53 [13.5]	.35 [9]
FW250	250W	0.1 - 30K	11.29 [287]	10.78 [274]	10.0 [254]	1.42 [36]	.53 [13.5]	.35 [9]
FW300	300W	0.1 - 35K	13.11 [333]	12.6 [320]	11.8 [300]	1.42 [36]	.53 [13.5]	.35 [9]
FWE60	60W	1.0 - 4.0	3.26 [83]	2.75 [70]	1.97 [50]	1.14 [29]	.5 [12.7]	.27 [7]
FWE80	80W	1.0 - 5.0	4.84 [123]	4.33 [110]	3.54 [90]	1.14 [29]	.5 [12.7]	.27 [7]
FWE100	100W	1.0 - 7.0	6.0 [153]	5.5 [140]	4.72 [120]	1.14 [29]	.5 [12.7]	.27 [7]
FWE140	140W	1.0 - 9.0	7.2 [183]	6.69 [170]	5.9 [150]	1.14 [29]	.5 [12.7]	.27 [7]
FWE180	180W	1.0 - 12.0	8.58 [218]	8.07 [205]	7.28 [185]	1.14 [29]	.5 [12.7]	.27 [7]
FWE225	225W	1.0 - 15.0	8.58 [218]	8.07 [205]	7.28 [185]	1.42 [36]	.53 [13.5]	.35 [9]
FWE300	300W	1.0 - 20.0	9.56 [243]	9.05 [230]	8.26 [210]	1.42 [36]	.53 [13.5]	.35 [9]
FWE375	375W	1.0 - 25.0	11.29 [287]	10.78 [274]	10.0 [254]	1.42 [36]	.53 [13.5]	.35 [9]
FWE450	450W	1.0 - 30.0	13.11 [333]	12.6 [320]	11.81 [300]	1.42 [36]	.53 [13.5]	.35 [9]

<sup>1</sup> Available as low as 0.05Ω on special order.

Tolerance	±5% is standard 1Ω and above, ±10% below 1Ω (avail. to ±1%)
Temperature Coefficient*	260ppm/°C Typ. 21Ω and above, 400ppm/°C 0.1Ω to 20Ω
Dielectric Strength**	1000 VAC: terminal to mounting bracket 0 VAC: terminal to resistor body
Overload	10x rated power for 5 sec.
Derating	Full power @ 25°C to zero power @ 350°C

\*TC's to 50ppm available \*\*Increased dielectric strength available

**P/N DESIGNATION:** FW70 - 250 - J B W

**RCD Type:** \_\_\_\_\_  
**Options:** X, EQ (Leave blank if standard)  
**Resis.Code 1%:** 3 signif. figures & multiplier, (R100=.1Ω, 1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1KΩ)  
**Resis.Code 2%-10%:** 2 signif. figures & multiplier, (R10=0.1Ω, 1R0=1Ω, 100=10Ω, 101=100Ω, 102=1K)  
**Tolerance:** K=10% (std <1Ω), J=5% (std ≥1Ω), H=3%, G=2%, F=1%  
**Packaging:** B = Bulk (only)  
**Termination:** W = Lead-free, Q = Tin/Lead (leave blank if either is acceptable)