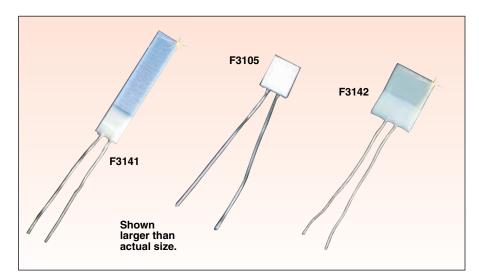
Thin Film DIN Class "A" RTD Elements

- ✓ DIN Class "A" Accuracy
- ✓ Various Sizes Available
- ightharpoonup Resistance Range from 100 to 1000 Ω at 0°C

Series F: Series F elements are small, flat, thin film elements with 0.2 mm (0.008") diameter by 10 mm (0.4") long lead wires. They can be used at temperatures between -50 and 500°C (-58 to 432°F) however, Class A accuracy is assured between -30 to 300°C (-22 to 572°F). These elements are available in 100.00 ±0.06, 500.00 ± 0.30 , and $1000.00 \pm 0.60\Omega$ at 0°C. Their resistance vs. temperature characteristics conform to IEC60751, and they have a temperature coefficient of resistance between 0 and 100°C of 0.00385 Ω/Ω /°C. See technical reference section online for a resistance vs. temperature curve and equations.



NEWPORT® thin film RTDs can be used as is with various controllers and instruments, or in an unlimited number of housings and package styles to meet user needs. Speak to one of our Applications Engineers for custom assemblies or application assistance.

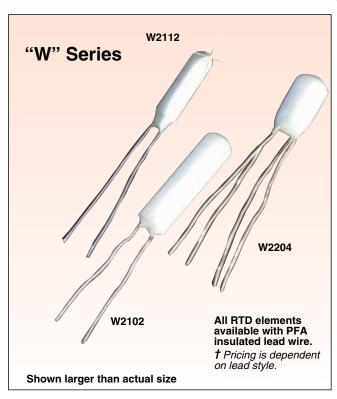
Discount Schedule	
1 to 10 units	Net
11 to 24 units	10%
25 to 49 units	15%
50 to 99 units	
100 units and up	25%

OMEGAFILM®—Platinum RTD Elements (Alpha = 0.00385)

To Order visit newportUS.com/W_F_WS81 for Pricing and Details								
Series	10 mm Lead Length Dimensions in Millimeters (1 mm = 0.03937")	Single or Dual		Nominal Resistance (Ω)	TemperatureModel Range	Number		
F	25 ±0.02 1.9 ±0.	1 1 1	x x x	100 500 1000		F3101 F3131 F3141		
F	0.25 ±0.02 10 ±1 3.9 ±0.15 0.9 ⁴³ / ₄₂ 0.9 ⁴³ / ₄₂ 0.9 ⁴³ / ₄₂	1	x x	100 500	Max range: -50 to 500°C (-58 to 932°F) however,	F3102 F3132		
F	4 ±0.2	1	х	1000	Class A tolerance applies to -30 to 300°C (-22 to 572°F)	F3142		
F	10 ±1 2.3 ±0.15 0.9 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3 0.0 ±3	1	x	100	(22 18 872 17)	F3105		
F	.25 ±0.02	1	x	100		F3107		

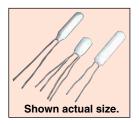
Ordering Examples: F3101, 1 x 100 platinum RTD element. **F3105**, 1 x 100 platinum RTD element.

Thin Film RTD Elements



Series W: Series W elements are rugged, cylindrical platinum thin film ceramic elements that can be used at temperatures between -50 and 600° C (-58 to 1112° F). These elements have a 0.38 mm (0.015") diameter and gold-palladium leads approximately 10 mm (0.4") long which are strain relieved in the ceramic body. Series W elements include single and dual element configurations with resistances at 0° C of 100, 200, 400, 500, 1000, and 2000Ω . The resistance vs. temperature characteristics of these elements conforms to IEC751, with a tolerance of $\pm 0.1\%$ at 0° C, placing their accuracy between the Class A and Class B requirements. The resistance vs. temperature table and calculation equations can be found in the technical reference section online.

OMEGAFILM® RTDs can be used as-is with various controllers and instruments, or packaged into an unlimited number of housings and package styles to meet your measurement and control needs.



Discount Schedule
1 to 10 units
11 to 24 units 10%
25 to 49 units 15%
50 to 99 units 20%
100 units and up 25%

OMEGAFILM®—Platinum RTD Elements (Alpha = 0.00385)

To Order visit newportUS.com/W_F_WS81 for Pricing and Details									
Series	15 mm Lead Length Dimensions in millimeters (1 mm = 0.03937")	Single or Dual		Nominal Resistance (Ω)	Temperature Range	Model Number			
w	* 3.0	1 1 1 1	x x x x	100 200 500 1000 2000		W2102 W2112 W2132 W2142 W2152			
w	3.0	2 2 2 2 2	x x x x	100 200 400 500 1000	-50 to 600°C (-58	W2202 W2212 W2222 W2232 W2242			
	<u> </u>	1	х	100	to 1112°F)	W2103			
W	3.0 7	2	x	100		W2204			
ws	0 2.2 6.7 - 2.1 thick	1	х	100	-50 to 850°C (-60 to 1560°F)	WS81			

^{*} Length is 17 mm for 1000 and 2000 Ω elements.

Ordering Example: W2103, 1 x 100 Ω , 2 mm dia. platinum RTD element.