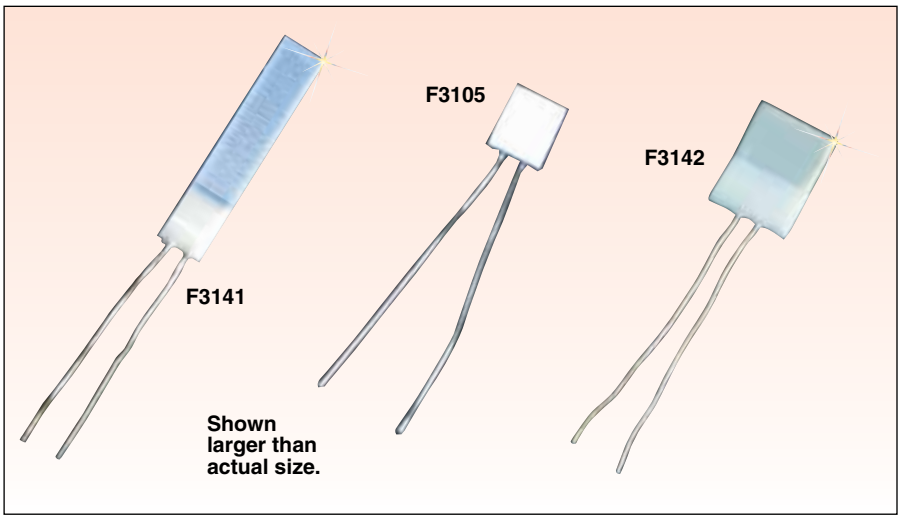
OMEGA® Thin Film
DIN Class "A" RTD Elements

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



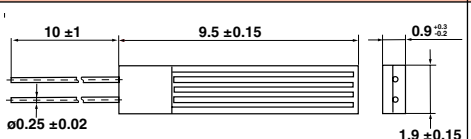
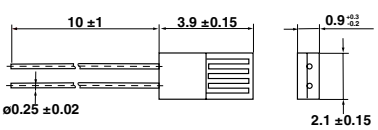
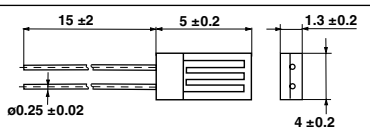
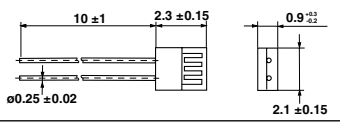
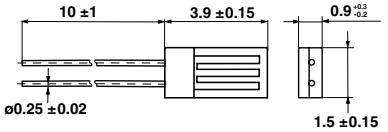
Series F: Series F elements are small, flat, thin film elements with 0.2 mm (0.008") diameter by 10 mm (0.4") long lead wires. They can be used at temperatures between -50 and 500°C (-58 to 432°F) however, Class A accuracy is assured between -30 to 300°C (-22 to 572°F). These elements are available in 100.00 ±0.06, 500.00 ±0.30, and 1000.00 ±0.60Ω 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.

OMEGA® thin film RTDs can be used as is with various OMEGA 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	20%
100 units and up	25%

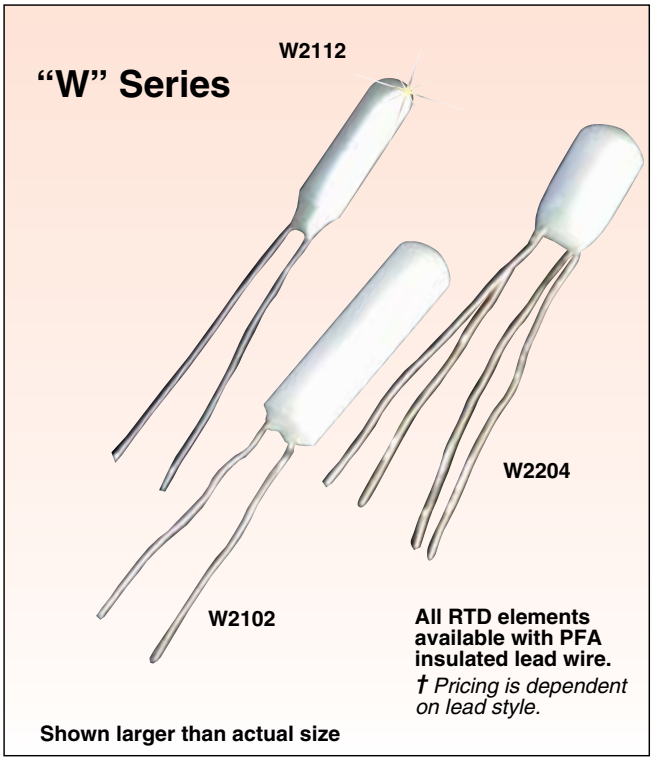
OMEGAFILM®—Platinum RTD Elements (Alpha = 0.00385)

To Order

Series	10 mm Lead Length Dimensions in Millimeters (1 mm = 0.03937")	Single or Dual		Nominal Resistance (Ω)	Temperature Model Range	Number
F		1	x	100	Max range: -50 to 500°C (-58 to 932°F) however, Class A tolerance applies to -30 to 300°C (-22 to 572°F)	F3101
		1	x	500		F3131
		1	x	1000		F3141
F		1	x	100		F3102
		1	x	500		F3132
F		1	x	1000		F3142
F		1	x	100		F3105
F		1	x	100		F3107

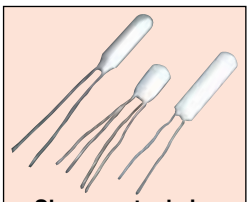
Ordering Examples: F3101, *1 x 100 platinum RTD element.*
F3105, *1 x 100 platinum RTD element.*

OMEGA® 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 2000 Ω. The resistance vs. temperature characteristics of these elements conforms to IEC751, with a tolerance of ±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.

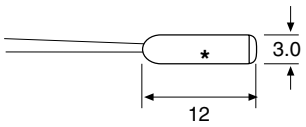
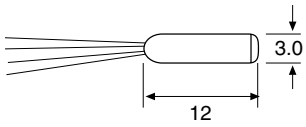
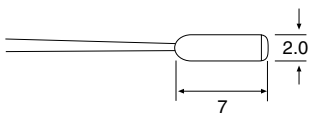
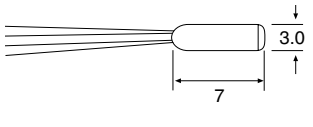
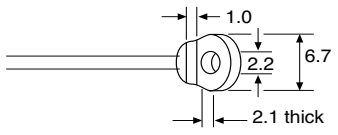
OMEGAFILM® RTDs can be used as-is with various OMEGA® controllers and instruments, or packaged into an unlimited number of housings and package styles to meet your measurement and control needs.


Shown actual size.

Discount Schedule	
1 to 10 units	Net
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

Series	15 mm Lead Length Dimensions in millimeters (1 mm = 0.03937")	Single or Dual		Nominal Resistance (Ω)	Temperature Range	Model Number
W		1	x	100	-50 to 600°C (-58 to 1112°F)	W2102
		1	x	200		W2112
		1	x	500		W2132
		1	x	1000		W2142
		1	x	2000		W2152
W		2	x	100		W2202
		2	x	200		W2212
		2	x	400		W2222
		2	x	500		W2232
		2	x	1000		W2242
W		1	x	100		W2103
W		2	x	100		W2204
WS		1	x	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.*