



Thermocouple Output Tolerances

Code	Thermocouple Output Tolerances			
	Type	Tolerance class 1	Tolerance Class 2	Tolerance Class 3
K	Temperature Range	-40°C to +375°C	-40°C to +333°C	-167°C to +40°C
	Tolerance Value	±1.5°C	±2.5°C	±2.5°C
	Temperature Range	375°C to 1000 °C	333 °C to 1200 °C	-200°C to -167 °C
	Tolerance Value	±0.004 t	±0.004 t	±0.015 t
T	Temperature Range	-40°C to +125°C	-40°C to +133°C	-67°C to +40°C
	Tolerance Value	±0.5°C	±1.0°C	±1.0°C
	Temperature Range	125°C to 350 °C	133°C to 350 °C	-200°C to -67 °C
	Tolerance Value	±0.004 t	±0.0075 t	±0.015 t
J	Temperature Range	-40°C to +375°C	-40°C to +333°C	-
	Tolerance Value	±1.5°C	±2.5°C	-
	Temperature Range	375°C to 750 °C	333°C to 750 °C	-
	Tolerance Value	±0.004 t	±0.0075 t	-
N	Temperature Range	-40°C to +375°C	-40°C to +333°C	-167°C to +40°C
	Tolerance Value	±1.5°C	±2.5°C	±2.5°C
	Temperature Range	375°C to 1000 °C	333°C to 1200 °C	-200°C to -167 °C
	Tolerance Value	±0.004 t	±0.0075 t	±0.015 t
E	Temperature Range	-40°C to +375°C	-40°C to +333°C	-167°C to +40°C
	Tolerance Value	±1.5°C	±2.5°C	±2.5°C
	Temperature Range	1100°C to 1600 °C	333°C to 900 °C	-200°C to -167°C
	Tolerance Value	±(1 +0.003(t-1100))°C	±0.0075 t	±0.015 t
R	Temperature Range	0°C to +1100°C	0°C to +600°C	-
	Tolerance Value	±1.0°C	±1.5°C	-
	Temperature Range	1100°C to 1000 °C	600°C to 1000 °C	-
	Tolerance Value	±(1 +0.003(t-1100))°C	±0.004 t	-
S	Temperature Range	0°C to +1100°C	0°C to +600°C	-
	Tolerance Value	±1.0°C	±1.5°C	-
	Temperature Range	1100°C to 1600 °C	600°C to 1600 °C	-
	Tolerance Value	±(1 +0.003(t-1100))°C	±0.0025 t	-
B	Temperature Range	-	-	600°C to +800°C
	Tolerance Value	-	-	±4.0°C
	Temperature Range	-	375°C to 1000 °C	800°C to 1700 °C
	Tolerance Value	-	±0.004 t	±0.005 t

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G	Temperature Range	-	0°C to +425°C	-
	Tolerance Value	-	±4.5°C	-
	Temperature Range	-	425°C to 2320 °C	-
	Tolerance Value	-	±1.0%	-
C	Temperature Range	-	0°C to +425°C	-
	Tolerance Value	-	±4.4°C	-
	Temperature Range	-	425°C to 2320 °C	-
	Tolerance Value	-	±1.0%	-
D	Temperature Range	-	0°C to +425°C	-
	Tolerance Value	-	±4.5°C	-
	Temperature Range	-	400°C to 2320 °C	-
	Tolerance Value	-	±1.0%	-

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