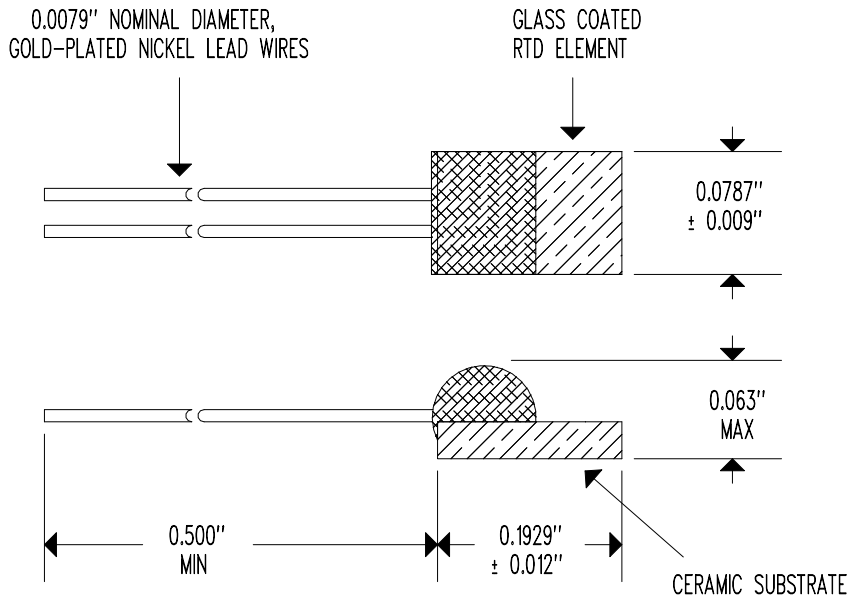

TEMPERATURE (°C)	RESISTANCE (Ω NOMINAL)	RESISTANCE TOLERANCE (± Ω)	TEMPERATURE ACCURACY (± °C)
-40	1,584	12	1.9
-30	1,649	11	1.7
-20	1,715	10	1.5
-10	1,794	9	1.3
0	1,854	8	1.1
+10	1,926	6	0.8
+20	2,000	5	0.7
+30	2,076	5	0.7
+40	2,153	6	0.8
+50	2,233	7	0.9
+60	2,314	9	1.1
+70	2,397	10	1.2
+80	2,482	12	1.4
+90	2,569	14	1.6
+100	2,658	16	1.8
+110	2,748	18	2.0
+120	2,840	19	2.0
+130	2,934	21	2.2
+140	3,030	23	2.4
+150	3,128	25	2.5

REV	DESCRIPTION	DATE	APP
0	INITIAL RELEASE	09/08/2020	DD

REVISION HISTORY

EI SENSOR TECHNOLOGIES
www.ei-sensor.com

P/N ERTD9T182KA

RTD ELEMENT

DRAWN BY: DAN DANKERT

SCALE: NONE | LAYER: 0 OF 2

REV: 0 | DATE: 09/08/2020

RESISTANCE @ 0°C = 1,854 Ω NOMINAL
TCR = 4,334 ppm/°C
DISSIPATION CONSTANT = 7 mW/°C NOMINAL (AIR)
MAXIMUM RECOMMENDED APPLIED CURRENT = 0.2 mA
THERMAL TIME CONSTANT = 8.5 SECONDS NOMINAL (AIR @ 1m/SECOND)
TEMPERATURE RATING = -60 TO +200°C

ROHS COMPLIANT

EI Sensor Technologies

Resistance Versus Temperature Table

P/N ERTD9T182KA Revision "0"

Resistance @ 0°C = 1,854 Ω

Temperature (°C)	Temperature (°F)	Resistance (Ω Nominal)
-40	-40.0	1,584
-30	-22.0	1,649
-20	-4.0	1,715
-10	14.0	1,784
0	32.0	1,854
10	50.0	1,926
20	68.0	2,000
30	86.0	2,076
40	104.0	2,153
50	122.0	2,233
60	140.0	2,314
70	158.0	2,397
80	176.0	2,482
90	194.0	2,569
100	212.0	2,658
110	230.0	2,748
120	248.0	2,840
130	266.0	2,934
140	284.0	3,030
150	302.0	3,128