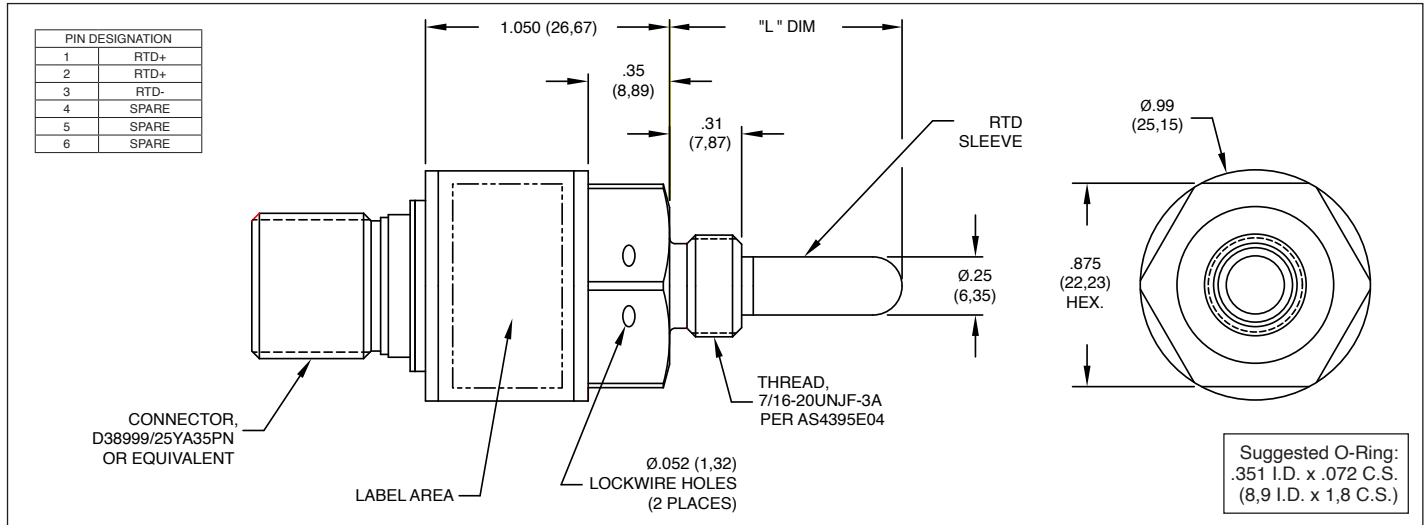# AIRCRAFT TEMPERATURE SENSOR

ATS-42HT(X)-1000(L) SERIES

- Aerospace Quality Components
- Robust Construction
- Excellent Long Term Stability
- Fast Response Time
- High Temperature
- Excellent For High Vibration and Thermal Shock
- Low Self Heating
- High Reliability

The ATS-42HT(X)-1000(L) utilizes a thin film platinum temperature sensor which provides a short response time as well as high accuracy and long-term stability over a wide temperature range.

PIN DESIGNATION	
1	RTD+
2	RTD+
3	RTD-
4	SPARE
5	SPARE
6	SPARE

1.050 (26,67)

"L " DIM

.35 (8,89)

.31 (7,87)

RTD SLEEVE

Ø.99 (25,15)

.875 (22,23) HEX.

Ø.25 (6,35)

CONNECTOR, D38999/25YA35PN OR EQUIVALENT

THREAD, 7/16-20UNJF-3A PER AS4395E04

LABEL AREA

Ø.052 (1,32) LOCKWIRE HOLES (2 PLACES)

Suggested O-Ring: .351 I.D. x .072 C.S. (8,9 I.D. x 1,8 C.S.)

SPECIFICATIONS

Temperature Range	-65°F to +540°F (-55°C to +282°C)
Pressure Limit	3000 PSI (207 Bar) Max
Media	Any Fluid Compatible With 15-5 and 316 Stainless Steel
Sensing Principle	Thin Film Platinum Class A RTD Per DIN EN 60751 (IEC 751) Temperature Coefficient .00385 Ω/Ω/°C
Probe Length (L)	(– 1) .844 (21,4) (– 2) 1.00 (25,4) (– 3) 1.270 (32,3)
Nominal Resistance at 0°C (32°F)(X)	(A) - 1000 Ohms (B) - 500 Ohms (C) - 100 Ohms
Excitation	1mA (2mA Max.)
Insulation Resistance	100 Megohm Min. @ 50 VDC
Accuracy	±1.8°F (1°C) (Typ.)
Response Time	65% Response Time 10 Seconds in Liquid
Steady Acceleration and Linear Vibration	20g Peak, Sine 10 to 2000 Hz
Electrical Connection	D38999/25YA35PN Series Connector or Equivalent
Weight	70 Grams (Nom.)
Mounting Torque	75 Inch-Pounds (Max.) 8.5 Nm

Note: Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. Continuous development and refinement of our products may result in (B) specification changes without notice. Copyright © 2024 Kulite Semiconductor Products, Inc. All Rights Reserved.