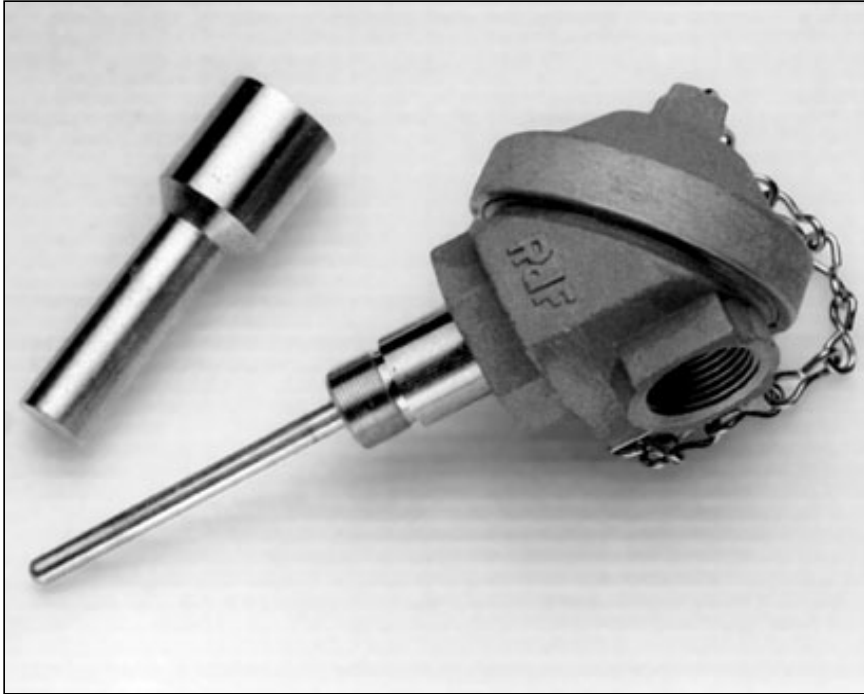




MIL-SPEC TEMPERATURE ASSEMBLIES

MILITARY QUALIFIED & LISTED ON QPL-24388



RdF has been supplying spring loaded temperature sensors to MIL-T-24388 for over twenty years. We offer these sensors with three different sensing elements: resistance temperature detectors (either nickel or platinum), and type K (Chromel / Alumel) ungrounded thermocouple. Military standard qualifications include: MIL-S-901 shock and MIL-STD-167 vibration testing.

We design these sensors to measure a variety of shipboard measurements including coolant fluid, stack temperature, and hydraulics for wet accumulators.

Thermowells per MIL-W-24270 are also available.

Performance Specifications

Type 21700 Resistance Temperature Detector

Reference Grade Platinum Element $\alpha = 0.003923\Omega/\Omega^{\circ}\text{C}$
Resistance $100.00\Omega@32^{\circ}\text{F}$, $139.24\Omega@212^{\circ}\text{F}$
Temperature Range: -40°F to 1000°F

PN	MIL-T-24388B Classification	"L" LENGTH	"A" LENGTH
21700-1	RTEP-4-2 TW	4.44	1.75
21700-2	RTEP-6-2 TW	6.69	4.00
21700-3	RTEP-9-2 TW	9.69	7.00
21700-4	RTEP-10-4 TW	10.19	5.59
21700-5	RTEP-6-4 TW	6.44	1.75
21700-6	RTEP-8-4 TW	8.69	4.00
21700-7	RTEP-11-4 TW	11.69	7.00
21700-8	-	8.69	2.00

Type 23700 Resistance Temperature Detector

Nickel Element $\Omega = 0.0068\Omega/\Omega/^\circ\text{C}$
Resistance $120.00\Omega@32^\circ\text{F}$, $200.76\Omega@212^\circ\text{F}$
Temperature Range: -40°F to 400°F

PN	MIL-T-24388B Classification	"L" LENGTH	"A" LENGTH
23700-1	RTEK-4-2 TW	4.44	1.75
23700-2	RTEK-6-2 TW	6.69	4.00
23700-3	RTEK-9-2 TW	9.69	7.00
23700-4	RTEK-10-4 TW	10.19	5.59
23700-5	RTEK-6-4 TW	6.44	1.75
23700-6	RTEK-8-4 TW	8.69	4.00
23700-7	RTEK-11-4 TW	11.69	7.00

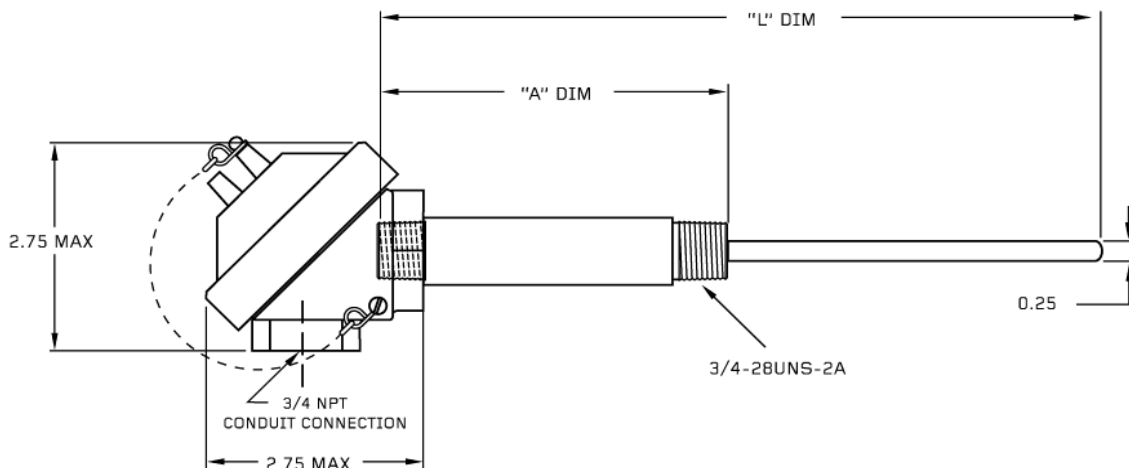
Type 27700 Thermocouple JQ TCEK

Type K Thermocouple
ANSI-C96.1
Temperature Range: -40°F to 1500°F

PN	MIL-T-24388B Classification	"L" LENGTH	"A" LENGTH
27700-1	TCEK-4-2 TW	4.44	1.75
27700-2	TCEK-6-2 TW	6.69	4.00
27700-3	TCEK-9-2 TW	9.69	7.00
27700-4	TCEK-10-4 TW	10.19	5.59
27700-5	-	15.37	7.00
27700-6	TCEK-6-4 TW	6.44	1.75
27700-7	TCEK-8-4 TW	8.69	4.00
27700-8	TCEK-11-4 TW	11.69	7.00

Dimensional Drawing

"L" = Length when installed into thermowell





*Specialists in
Temperature
Measurement*

 AS9100
ISO 9001
CERTIFIED COMPANY



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in USA

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