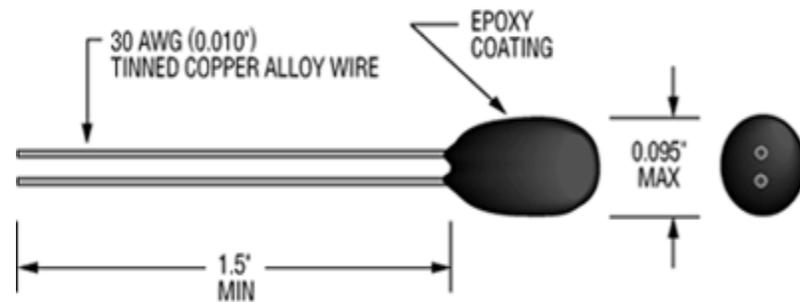


Ultra Precision Interchangeable Thermistors $\pm 0.05^{\circ}\text{C}$ Accuracy

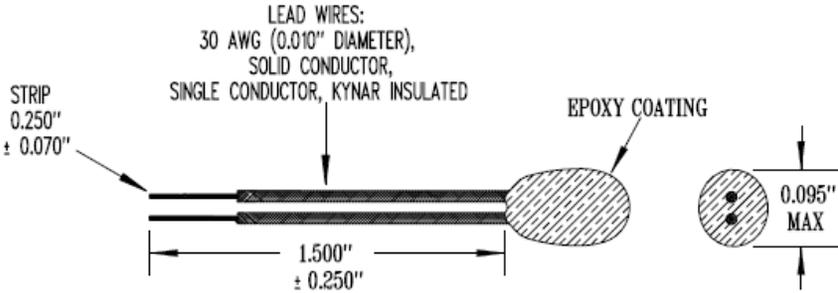


P/N	Resistance @ 25°C (Ohms)	R/T Curve	Accuracy 0-50°C	Beta 0-50°C
PR222J2	2,252	J	$\pm 0.05^{\circ}\text{C}$	3892°K
PR103J2	10,000	J	$\pm 0.05^{\circ}\text{C}$	3892°K

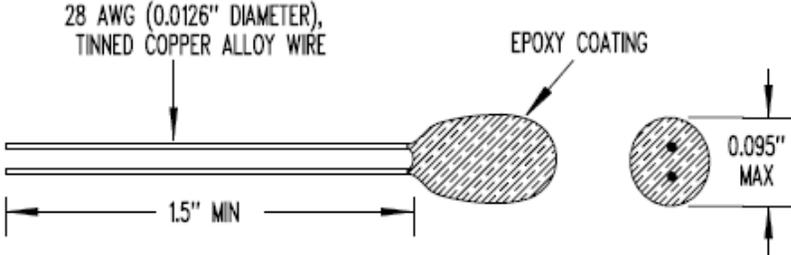


NTC Epoxy Coated Thermistors

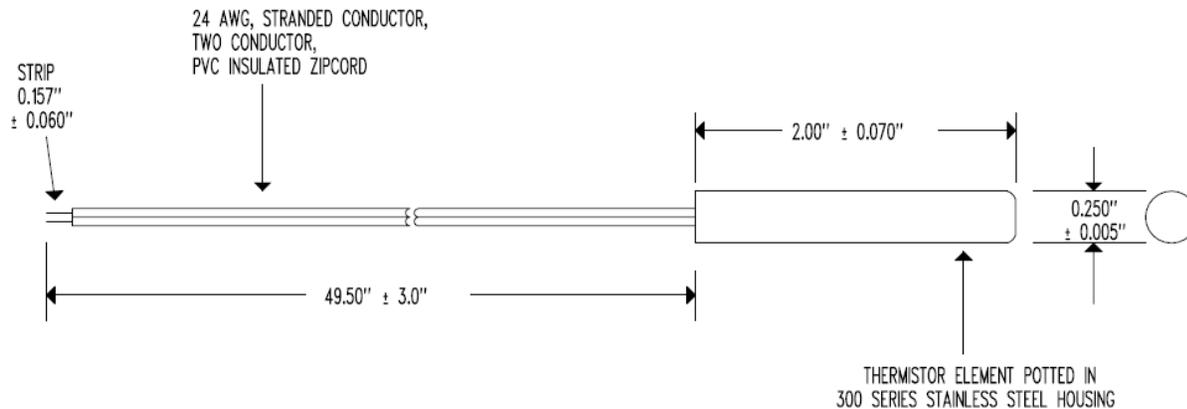
KS & KT Series (0.1°C/0.2°C)



LC Series



P/N	Resistance @ 25°C Ω	Accuracy/ Tolerance	R/T Curve
KS502J2	5,000	± 0.1°C (0-70°C)	J
KS103G2	10,000	± 0.1°C (0-70°C)	G
KS103J2	10,000	± 0.1°C (0-70°C)	J
KT103G2	10,000	± 0.2°C (0-70°C)	G
KT103J2	10,000	± 0.2°C (0-70°C)	J
LC103J2JRA	10,000	± 5% @ 25°C	J
LC303J2J	30,000	± 5% @ 25°C	J
SC104J4JRA	100,000	± 5% @ 25°C	J



- ± 1% Tolerance
- 105°C Max Temp
- Moisture Resistant
- PVC Insulated Zip Cord Lead Wire
- 0.250" Diameter Stainless Steel Housing

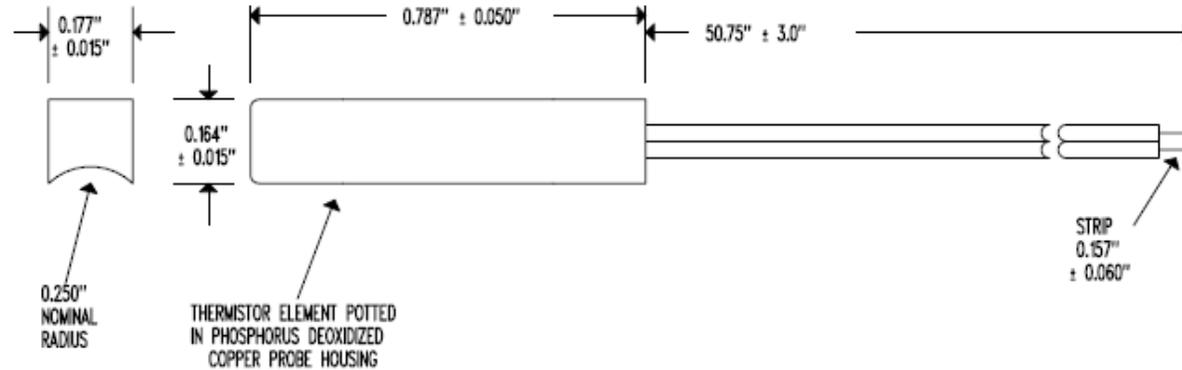
RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = "J"
 BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
 TEMPERATURE COEFFICIENT @ +25°C = -4.4%/°C NOMINAL
 MAXIMUM TEMPERATURE RATING = +105°C

MOISTURE RESISTANT PROBE ASSEMBLY

SEE MANUFACTURING SPECIFICATION (LAYER 1)

"A"	LEAD WIRE LENGTH WAS 12" ± 1"	09/29/10	DD
NONE	RELEASE TO PRODUCTION	04/02/10	DD
REV	REVISION RECORD	DATE	APP

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com
DRAWN BY	DAN DANKERT	
DATE	04/02/10	
REV.	"A"	
LAYER	0 OF 2	
		NTC THERMISTOR PROBE P/N USP10972



RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = "J"
 TEMPERATURE COEFFICIENT @ +25°C = -4.4%/°C NOMINAL
 BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
 MAXIMUM TEMPERATURE RATING = +105°C

LEAD WIRE: 24 AWG, STRANDED CONDUCTOR,
 TWO CONDUCTOR, PVC INSULATED ZIPCORD

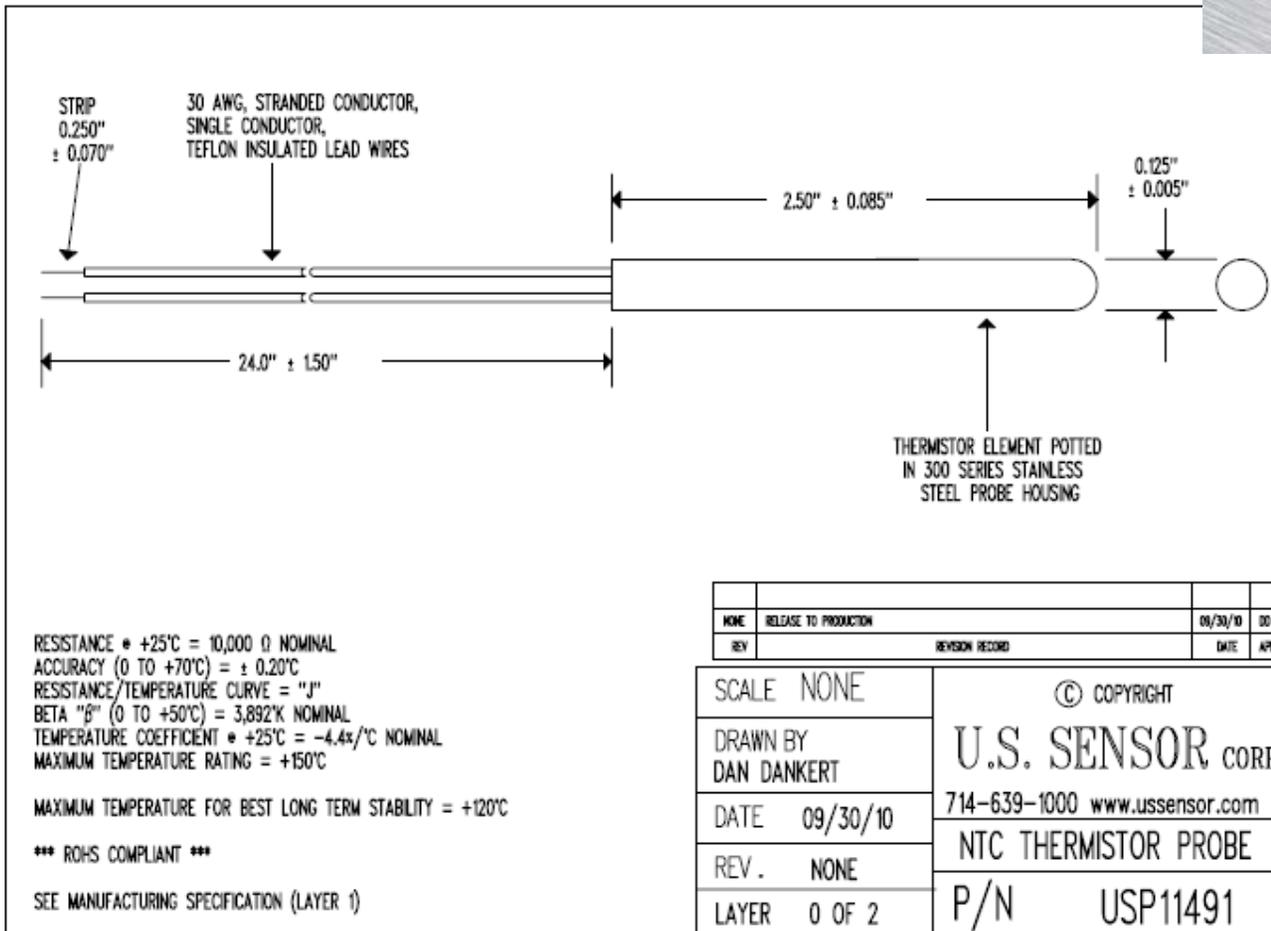
MOISTURE RESISTANT PROBE ASSEMBLY

SEE MANUFACTURING SPECIFICATION (LAYER 1)

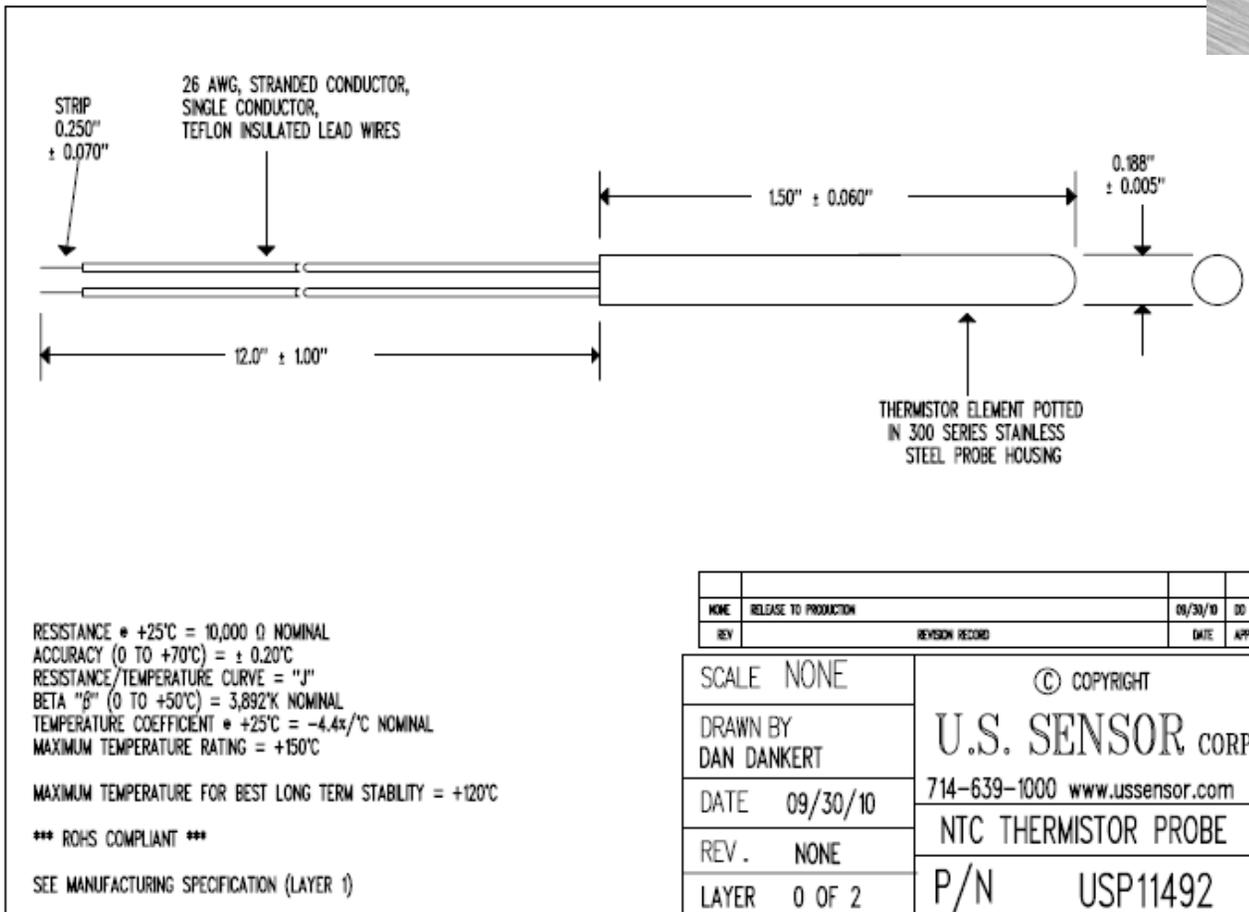
REV	REVISION RECORD	DATE	APP
"A"	LEAD WIRE LENGTH WAS 12" ± 1"	09/29/10	DD
NONE	RELEASE TO PRODUCTION	04/02/10	DD

SCALE NONE	U.S. SENSOR CORP. 1832 W. COLL INS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com
DRAWN BY DAN DANKERT	
DATE 04/02/10	TEMPERATURE SENSOR
REV. "A"	P/N USP10973
LAYER 0 OF 2	

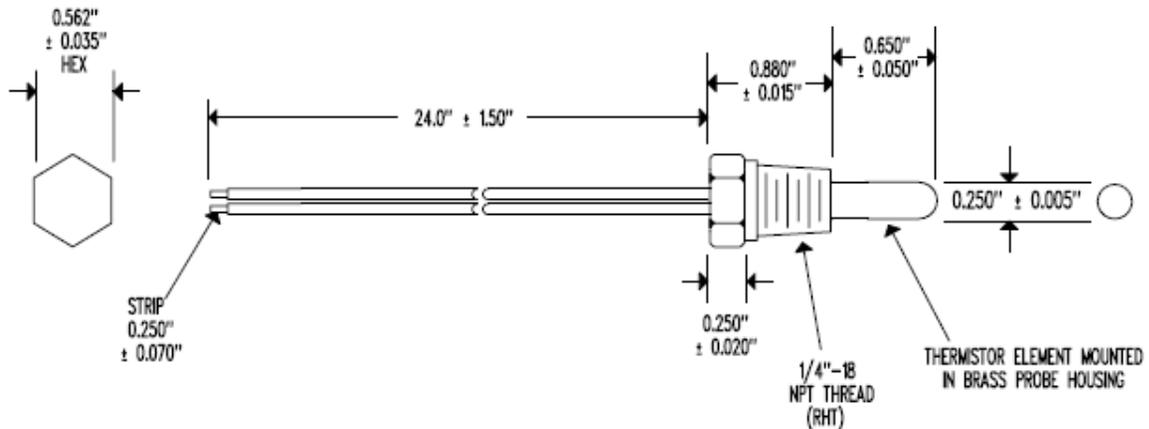
- ± 1% Tolerance
- 105°C Max Temp
- Moisture Resistant
- PVC Insulated Zip Cord Lead Wire
- 0.164" Copper Housing with Radius



- ± 0.2°C Accuracy
- 150°C Max Temp
- Teflon Insulated Lead Wire
- 0.125" Diameter Stainless Steel Housing



- ± 0.2°C Accuracy
- 150°C Max Temp
- Teflon Insulated Lead Wire
- 0.188" Diameter Stainless Steel Housing



RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = "J"
 BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
 TEMPERATURE COEFFICIENT @ +25°C = -4.4%/°C NOMINAL
 MAXIMUM TEMPERATURE RATING = +105°C

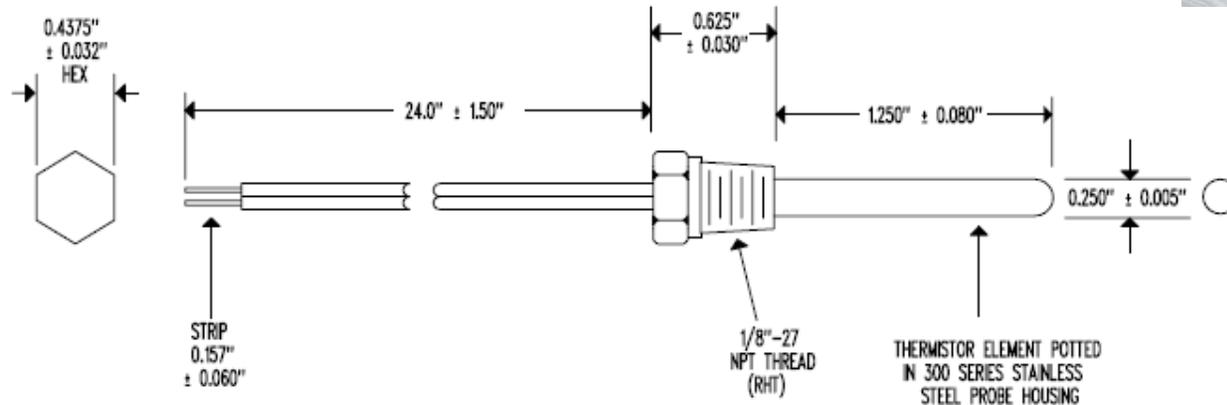
LEAD WIRES: 26 AWG, STRANDED CONDUCTOR,
 SINGLE CONDUCTOR, PVC INSULATED

SEE MANUFACTURING SPECIFICATION (LAYER 1)

REV	REVISION RECORD	DATE	APP
"A"	LEAD WIRE LENGTH WAS 12" ± 1"	06/28/10	DD
NONE	RELEASE TO PRODUCTION	04/02/10	DD

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com
DRAWN BY	DAN DANKERT	
DATE	04/02/10	
REV.	"A"	
LAYER	0 OF 2	
		NTC THERMISTOR PROBE
		P/N USP10978

- ± 1% Tolerance
- 105°C Max Temp
- PVC Insulated Lead Wire
- 0.250" Diameter Brass NPT Threaded Housing



RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = "J"
 BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
 TEMPERATURE COEFFICIENT @ +25°C = -4.4%/°C NOMINAL
 MAXIMUM TEMPERATURE RATING = +105°C

LEAD WIRE: 24 AWG, STRANDED CONDUCTOR,
 TWO CONDUCTOR, PVC INSULATED ZIPCORD

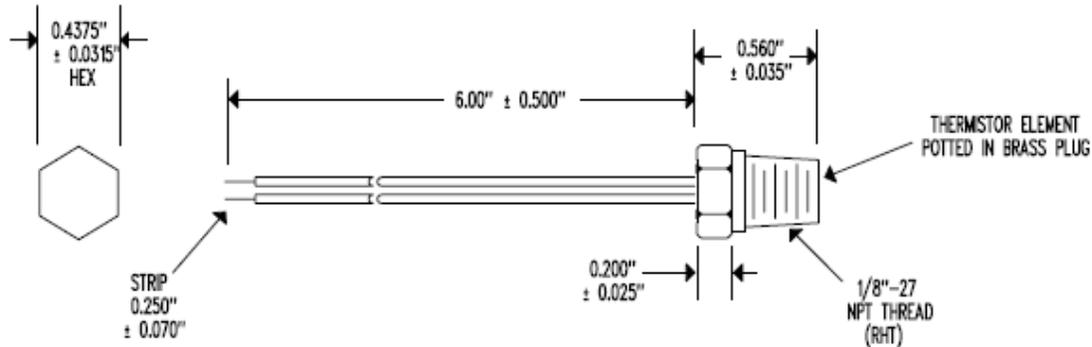
MOISTURE RESISTANT PROBE ASSEMBLY

SEE MANUFACTURING SPECIFICATION (LAYER 1)

REV	DESCRIPTION	DATE	APP
"A"	LEAD WIRE LENGTH WAS 12" ± 1"	06/21/10	DD
NONE	RELEASE TO PRODUCTION	04/02/10	DD
REV	REVISION RECORD	DATE	APP

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com NTC THERMISTOR PROBE P/N USP10981
DRAWN BY	DAN DANKERT	
DATE	04/02/10	
REV.	"A"	
LAYER	0 OF 2	

- ± 1% Tolerance
- 105°C Max Temp
- Moisture Resistant
- PVC Insulated Zip Cord Lead Wire
- 0.250" Diameter Stainless Steel NPT Threaded Housing



- $\pm 5\%$ Tolerance
- 105°C Max Temp
- PVC Insulated Lead Wire
- Brass NPT Threaded Plug

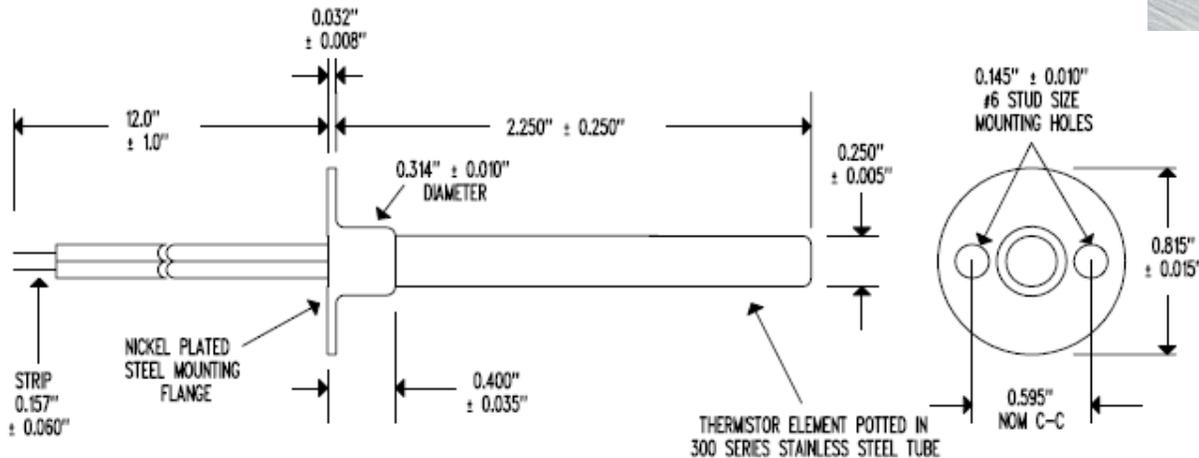
RESISTANCE @ $+25^{\circ}\text{C}$ = $10,000 \Omega \pm 5\%$
 RESISTANCE/TEMPERATURE CURVE = "J"
 TEMPERATURE COEFFICIENT @ $+25^{\circ}\text{C}$ = $-4.4\%/^{\circ}\text{C}$ NOMINAL
 MAXIMUM TEMPERATURE RATING = $+105^{\circ}\text{C}$

LEAD WIRES: 28 AWG, STRANDED CONDUCTOR,
 SINGLE CONDUCTOR, PVC INSULATED

SEE MANUFACTURING SPECIFICATION (LAYER 1)

"X"	LEAD WIRE LENGTH WAS $2'' \pm 0.50''$	06/21/10	DD
NONE	RELEASE TO PRODUCTION	04/06/10	DD
REV	REVISION RECORD	DATE	APP

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com
DRAWN BY	DAN DANKERT	
DATE	04/06/10	NTC THERMISTOR PROBE
REV.	"A"	P/N USP10997
LAYER	0 OF 2	



- $\pm 1\%$ Tolerance
- 105°C Max Temp
- Moisture Resistant
- PVC Insulated Zip Cord Lead Wire
- 0.250" Diameter Stainless Steel Flanged Housing

RESISTANCE @ +25°C = 10,000 Ω $\pm 1\%$
 RESISTANCE/TEMPERATURE CURVE = "J"
 TEMPERATURE COEFFICIENT @ +25°C = -4.4%/°C NOMINAL
 BETA "B" (0 TO +50°C) = 3,892K NOMINAL
 MAXIMUM TEMPERATURE RATING = +105°C

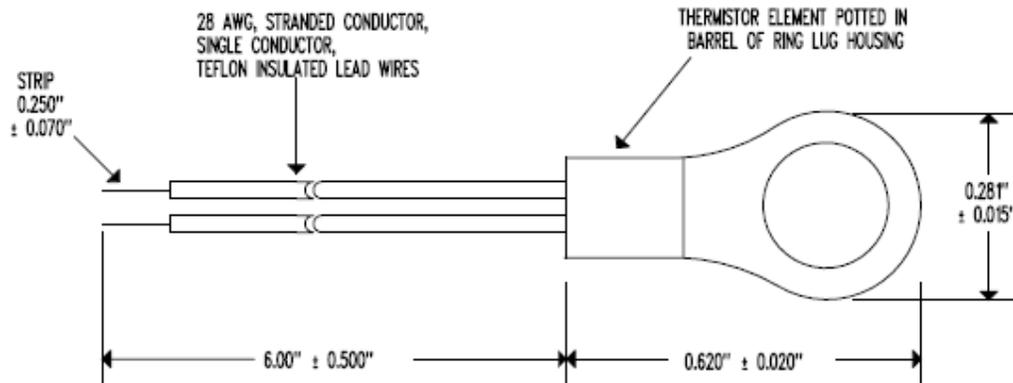
LEAD WIRE: 24 AWG, STRANDED CONDUCTOR,
 TWO CONDUCTOR, PVC INSULATED ZIPCORD

MOISTURE RESISTANT PROBE ASSEMBLY

SEE MANUFACTURING SPECIFICATION (LAYER 1)

REV	RELEASE TO PRODUCTION	DATE	04/02/10	APP	DD
REV	REVISION RECORD	DATE		APP	

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com
DRAWN BY	DAN DANXORS	
DATE	04/02/10	
REV.	NONE	
LAYER	0 OF 2	
		NTC THERMISTOR PROBE P/N USP10979



RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = "J"
 TEMPERATURE COEFFICIENT @ +25°C = -4.4%/°C NOMINAL
 BETA "β" (0 TO +50°C) = 3,892°K NOMINAL
 MAXIMUM TEMPERATURE RATING = +150°C

MAXIMUM TEMPERATURE FOR BEST LONG TERM STABILITY = +120°C

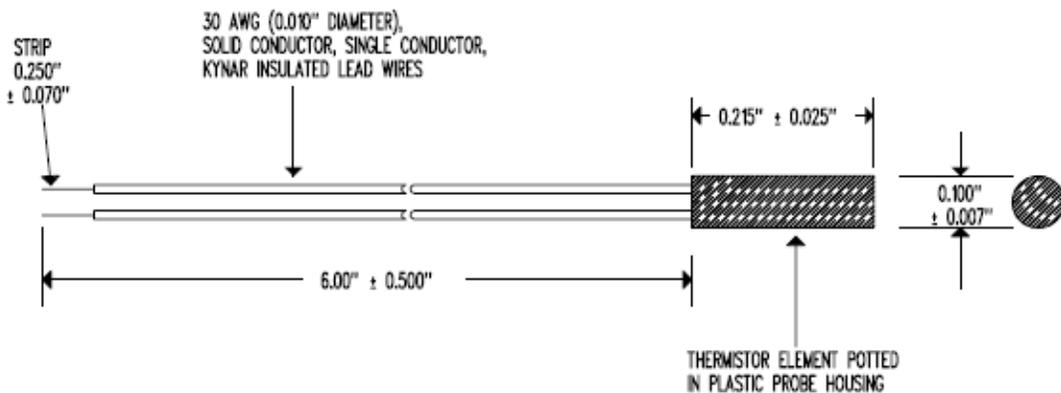
MOUNTING-HOLE DIAMETER = 0.145" NOMINAL
 MOUNTING-HOLE STUD-SIZE = #6

SEE MANUFACTURING SPECIFICATION (LAYER 1)

"A"	LEAD WIRE LENGTH WAS 1.50" ± 0.375"	06/21/10	DD
NONE	RELEASE TO PRODUCTION	04/02/10	DD
REV	REVISION RECORD	DATE	APP

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com THERMISTOR PROBE P/N USP10976
DRAWN BY	DAN DANKERT	
DATE	04/02/10	
REV.	"A"	
LAYER	0 OF 2	

- ± 1% Tolerance
- 150°C Max Temp
- Teflon Insulated Lead Wire
- #6 Stud Size Ring Lug



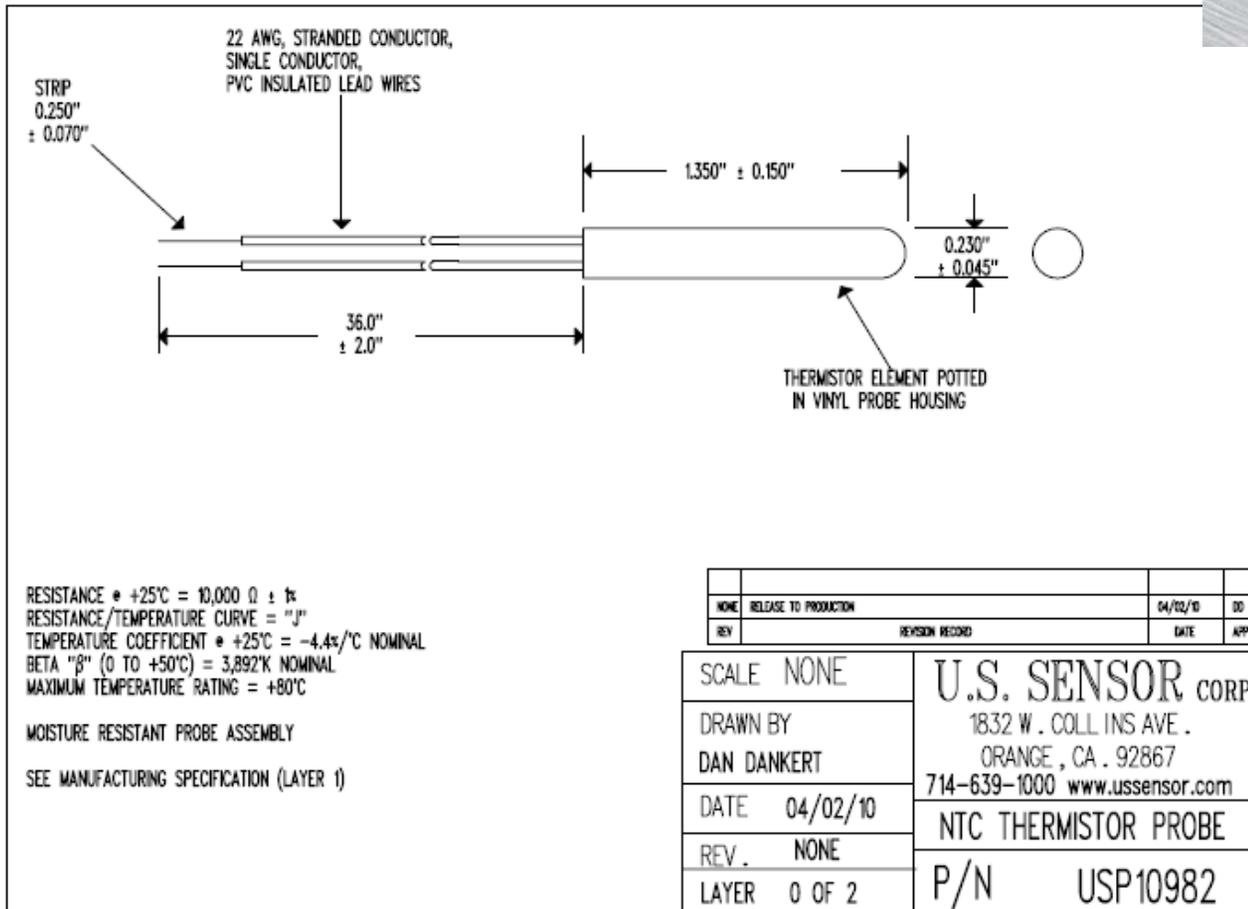
- $\pm 1\%$ Tolerance
- 125°C Max Temp
- Kynar Insulated Lead Wire
- 0.100" Diameter Plastic Housing

RESISTANCE @ $+25^{\circ}\text{C}$ = $10,000 \Omega \pm 1\%$
 RESISTANCE/TEMPERATURE CURVE = "J"
 BETA "B" (0 TO $+50^{\circ}\text{C}$) = $3,892^{\circ}\text{K}$ NOMINAL
 TEMPERATURE COEFFICIENT @ $+25^{\circ}\text{C}$ = $-4.4\%/^{\circ}\text{C}$ NOMINAL
 MAXIMUM TEMPERATURE RATING = $+125^{\circ}\text{C}$

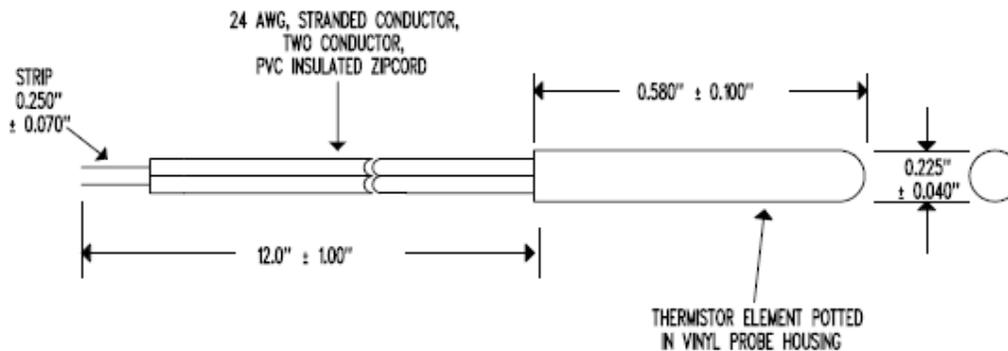
SEE MANUFACTURING SPECIFICATION (LAYER 1)

"A"	LEAD WIRE LENGTH WAS 150" \pm 0.375"	09/21/10	DD
NONE	RELEASE TO PRODUCTION	04/02/10	DD
REV	REVISION RECORD	DATE	APP

SCALE	NONE	U.S. SENSOR CORP. 1832 W. COLLINS AVE. ORANGE, CA. 92867 714-639-1000 www.ussensor.com
DRAWN BY	DAN DANKERT	
DATE	04/02/10	
REV.	"A"	
LAYER	0 OF 2	
		NTC THERMISTOR PROBE P/N USP10975



- ± 1% Tolerance
- 80°C Max Temp
- PVC Insulated Lead Wire
- 0.230" Diameter Vinyl Housing



- $\pm 0.1^{\circ}\text{C}$ Accuracy
- 105°C Max Temp
- PVC Insulated Zip Cord Lead Wire
- 0.225" Diameter Vinyl Housing

RESISTANCE @ $+25^{\circ}\text{C}$ = 2,252 Ω NOMINAL
 ACCURACY (0 TO $+70^{\circ}\text{C}$) = $\pm 0.10^{\circ}\text{C}$
 RESISTANCE/TEMPERATURE CURVE = "J"
 BETA " β " (0 TO $+50^{\circ}\text{C}$) = 3,892K NOMINAL
 TEMPERATURE COEFFICIENT @ $+25^{\circ}\text{C}$ = $-4.4\%/^{\circ}\text{C}$ NOMINAL
 MAXIMUM TEMPERATURE RATING = $+105^{\circ}\text{C}$

MAXIMUM TEMPERATURE FOR BEST LONG TERM STABILITY = $+75^{\circ}\text{C}$

*** ROHS COMPLIANT

SEE MANUFACTURING SPECIFICATION (LAYER 1)

REV	RELEASE TO PRODUCTION	DATE	09/30/10	APP	DD
	REVISION RECORD				

SCALE	NONE	© COPYRIGHT U.S. SENSOR CORP. 714-639-1000 www.ussensor.com NTC THERMISTOR PROBE P/N USP11493
DRAWN BY	DAN DANKERT	
DATE	09/30/10	
REV.	NONE	
LAYER	0 OF 2	