HPB-500 Button Probe

Temperature Ranges A and E

Specifications

Guard

Cable -

Temperature Ranges:

Temperature Range A

Low: 32° F [0° C] High: 302° F [150° C]

Temperature Range E

Low: -100° F [-73° C] High: 400° F [205° C]

Linear Range: : 0.325 inches [8.26 millimeters] with a 5 foot [1.52 meters] long Capacitec L2 cable. For cables longer than 5ft consult factory.

Maximum Range: 0.500 inches [12.70 millimeters]



- A 20 point archived calibration record of voltage output versus nominal displacement is provided standard with every probe.
- Several NIST traceable calibrations are available.

Material: Case, guard, and sensor are 303 stainless steel

Driven Guard: The guard element is driven with an electronic voltage of 2V to 20V peak to peak. Note, guard must not be grounded.

Dip Coating: "-D" epoxy dip coatings are optional to prevent accidental earth grounding or shorting of the elements.

Mounting:

- Capacitec HPB probes are intended to be mounted within a countersink.
- See mounting drawing on page 6 for details.

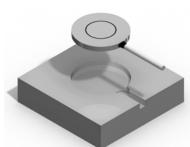
Cable:

- Coaxial Capacitec L2 or L3 cable is standard.
- Probe must be calibrated with the cable type and length selected.
- Cable must not be cut or spliced.

Probe Thickness: There is one standard thickness and 2 non-standard thicknesses. See drawing for dimensions.

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Sensor

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HPB- 500 High Temperature Button Probe

Temperature Ranges V and S

Specifications

Guard

Temperature Ranges:

Temperature Range V

Low: -100° F [-73° C] High: 1600° F [871° C]

Temperature Range S

Low: -100° F [-73° C] High: 1832° F [1000° C]

Linear Range: 0.325 inches [8.26 millimeters] with a 5 foot [1.52 meters] long Capacitec T cable. For cables longer than 5ft consult factory.

Maximum Range: 0.500 inches [12.70 millimeters]

Calibration:

- A 20 point archived calibration record of voltage output versus nominal displacement is provided standard with every probe.
- Several NIST traceable calibrations are available.

Material: Case, guard, and sensor are Inconel 600[®] (range V) or Haynes 230[®] (range S)

Driven Guard: The guard element is driven with an electronic voltage of 2V to 20V peak to peak. Note, guard must not be grounded.

Mounting:

- Capacitec HPB probes are intended to be mounted within a countersink.
- See mounting drawing on page 7 for details.

Cable:

- High temperature insulated Capacitec T type, is standard.
- Probe must be calibrated with the cable type and length selected.
- Cable must not be cut or spliced.

Probe Lengths: There is one standard thickness. See drawing for dimensions.

Cable

Sensor

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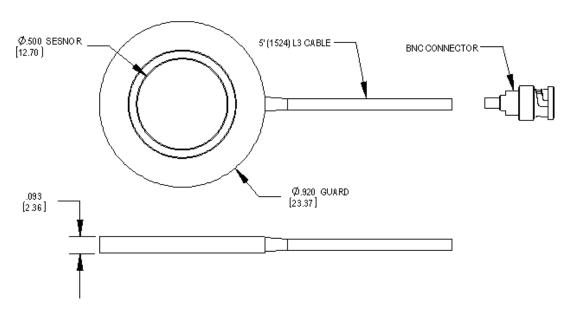
HPB- 500 Button Probe Part Number Reference Guide

HPB-50	0 X	- X -	XX -	XX -	. Х
	PROBE LENGTH	OPERATING TEMPERATURE	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE
Д	(2.36)	A - 32 to 302°F (0 to 150°C)	L2093" coax (2.36)	5 - 5' Standard (1524)	M – 10-32 Microdot (Not compatible with I2 or N cable)
В	3065" (1.65)	E - ⁻ 100 to 400°F (-73 to 205°C)	L3063" coax (1.60)	X - Other in ft.	B – BNC
C	:- (High Temp) .125" (3.18)	V - ⁻ 100 to 1600°F (-73 to 371°C)	I2125" coax (3.18)		MCX – MCX (Not compatible with I2 or N cable)
	, ,	S - ⁻ 100 to 1832°F (-73 to 1000°C)	T – High Temp .063" coax (1.60)		,
			N – High Temp .140" coax (3.56)	(DIMENSION	S) IN MILLIMETERS

EXAMPLE: HPB-500A-A-L3-5-B

HPB-500A

A TEMPERATURE RANGE



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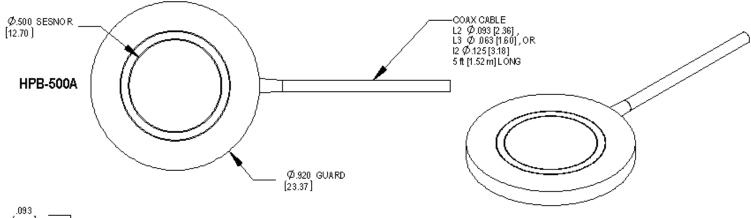
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ECapacitec HPB-375 Standard Button Probe Temperature Ranges A and E Thickness A

DIMENSIONS ARE NOMINAL VALUES

CUSTOM THICKNESS OPTIONS				
OPTION	THICKNESS			
В	.065 [1.65]			
С	.125 [3.17]			



TEMPERATURE RANGE							
OPTION	RANGE (°F)		RANGE (°C)				
OF HON	LOW	HIGH	LOW	HIGH			
Α	32 °	302°	0°	150°			
E	-100°	400 °	-73°	205°			

[2 36]

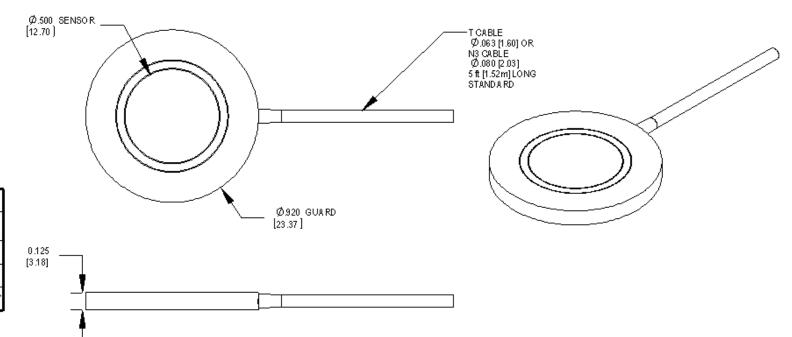
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HPB-500 Standard High Temperature Button Probe Temperature Ranges V and S Thickness C

DIMENSIONS ARE NOMINAL VALUES



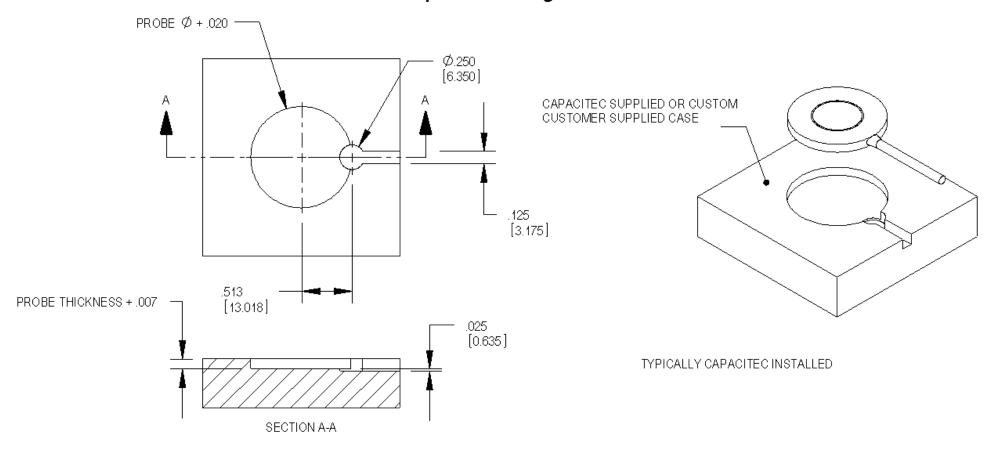
TEMPERATURE RANGE							
OPTION	RANGE (°F)		RANGE (°C)				
OF HOR	LOW	HIGH	LOW	HIGH			
٧	-100 °	1600 °	-73 °	871 °			
S	-100°	1832 °	-73°	1000°			

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Standard Button Probe Install Temperature Ranges A and E



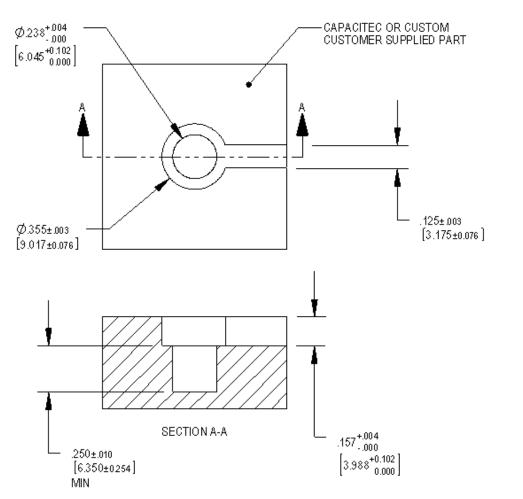
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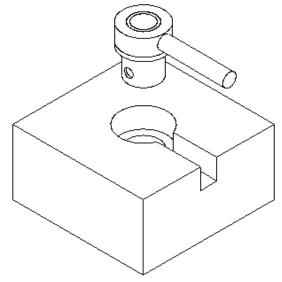
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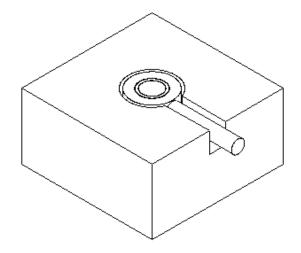
Standard High Temperature Button Probe Install

Temperature Ranges V and S





TYPICALLY CAPACITEC INSTALLED



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