HPB-75 Button Probe

Temperature Ranges A and E

Specifications

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: : 0.050 inches [1.27 millimeters] with a 5 foot [1.52 meters] long Capacitec L2 cable. For cables longer than 5ft consult factory.

Maximum Range: 0.075 inches [1.91 millimeters]

Calibration:

 A 20 point archived calibration record of voltage output versus nominal displacement is provided standard with every probe.

Guard

• 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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EU Email: eurosales@capacitec.com

Web: www.capacitec.com



Sensor

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HPB-75 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: 0.050 inches [1.27 millimeters] with a 5 foot [1.52 meters] long Capacitec T cable. For cables longer than 5ft consult

factory.

Maximum Range: 0.075 inches [1.91 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.

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Cable .

Sensor

HPB- 75 Button Probe Part Number Reference Guide

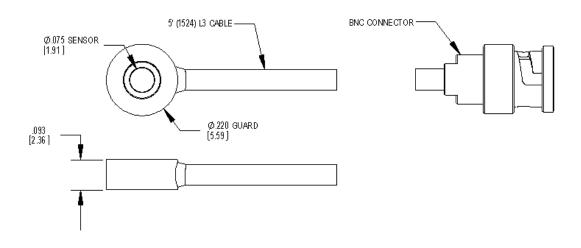
HPB-	75 X	- X -	XX -	XX	- X
	PROBE THICKNESS	OPERATING TEMPERATURE	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE
	A093" (2.36)	A - 32 to 302°F (0 to 150°C)	L2093" coax (2.36)	5 - 5' Standard (1524)	M – 10-32 Microdot
	B065"	E - 100 to 400°F	L3063" coax	X - Other in ft.	B – BNC MCX – MCX
	(1.65) C – (High Temp) .125"	(-73 to 205°C) V - ⁻ 100 to 1600°F (-73 to 371°C)	(1.60) T – (High Temp) .063" coax		IVICA – IVICA
	(3.18)	S100 to 1832°F	(1.60)		
ligh femp) 807 coax 503)					(-7800 (2000°C) N3+ (

IMENSIONS) IN MILLIMETERS

(C

EXAMPLE: HPB-75A-A-L3-5-B

HPC-75A ATEMPERATURE RANGE



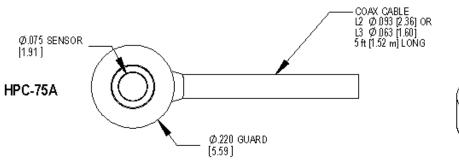
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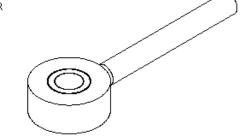
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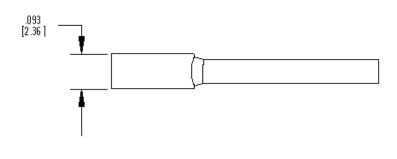
■Capacitec **HPB-75 Standard Button Probe** Temperature Ranges A and E Length A DIMENSIONS ARE NOMINAL VALUES

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





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



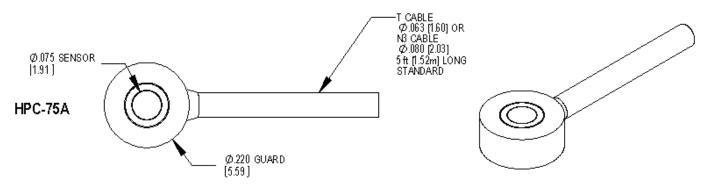
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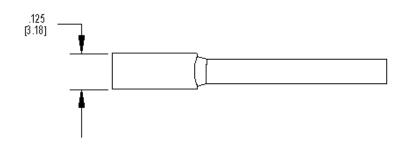
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ECapacitec HPB-75 Standard High Temperature Button Probe Temperature Ranges V and S Thickness C

DIMENSIONS ARE NOMINAL VALUES



TEMPERATURE RANGE							
OPTION	RANGE (°F)		RANGE (°C)				
OFTION	LOW	HIGH	LOW	HIGH			
٧	-100°	1600°	-73 °	871°			
s	-100 °	1832°	-73 °	1000 °			

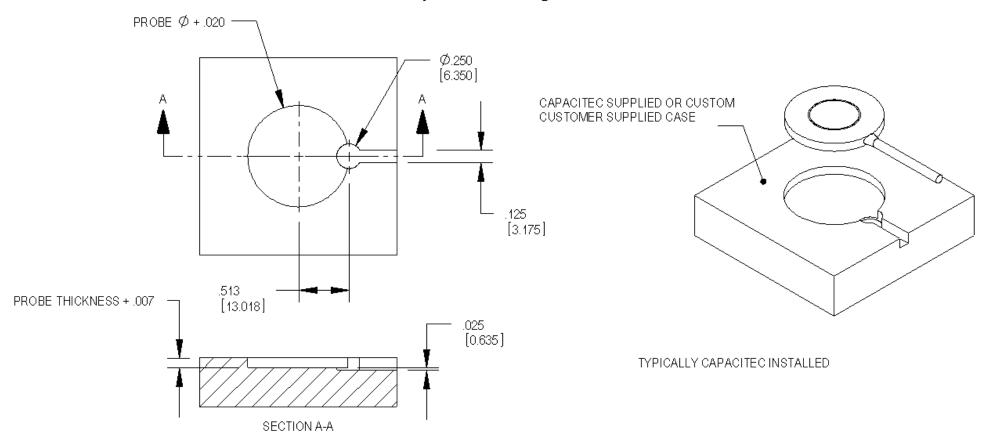


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Standard Button Probe Install Temperature Ranges A and E



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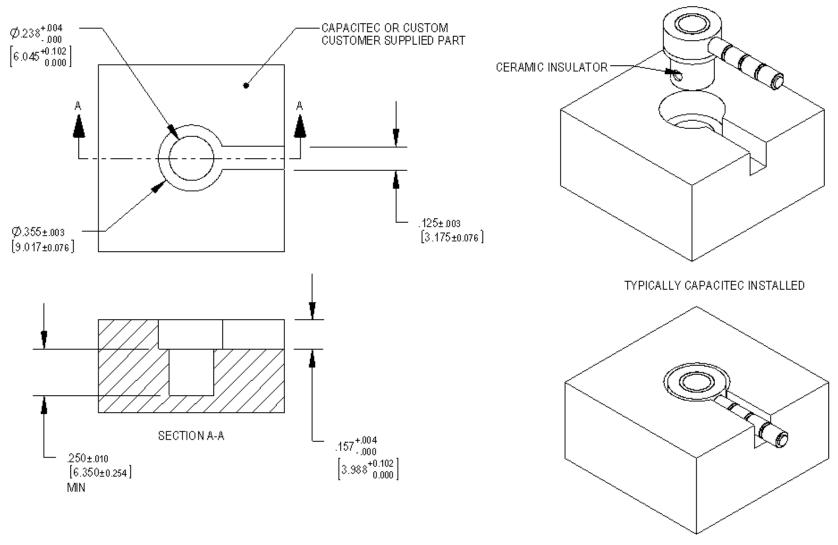
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Standard High Temperature Button Probe Install

Temperature Ranges V and S



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