

Signatone's Ceramic Blade Probe

❖ Model S-CBP

- Temperature Range = -60°C to +300°C
- Probe TIP Material = Tungsten & Beryllium Copper
- SSMC to BNC Connectors
- Coaxial Connection
- <25fA Leakage @ Ambient
- <3pA Leakage @ +300°C
- Replaceable Probe Tip
- Mounts on all Signatone DC Micropositioners



Sample: Ceramic Blade Probe,(2) SSMA connectors and cables, and SBC-PMA

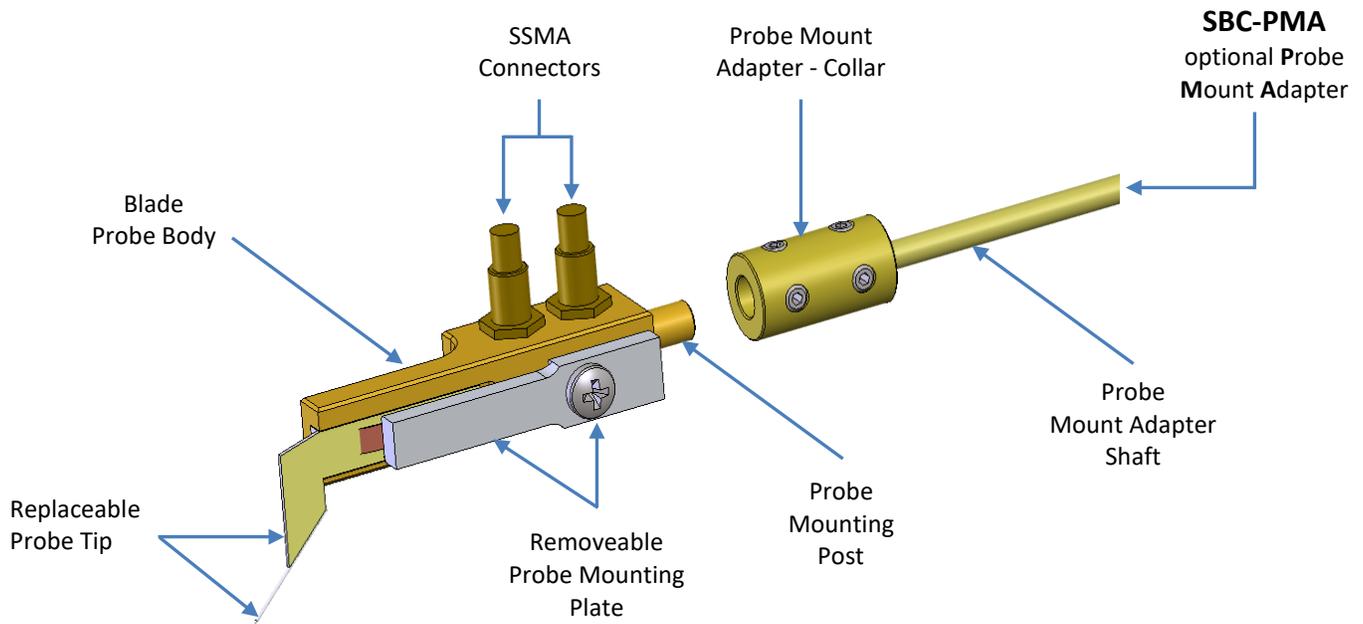
The Ceramic Coaxial Blade Probe is typically used when probing at extreme temperatures. The ceramic blade and specialized mounting assure minimal movement caused by thermal expansion.

The Signatone Coaxial Blade Probe is designed for use on all Signatone probe stations. Designed for stable probing of devices at high temperatures, the probes may be used at temperatures up to +300°C, measurements up to +600°C when used in conjunction with the Signatone "Heat-Shield". The coaxial structure permits ceramic guarded blade probe tips to be mounted on Signatone micropositioners. The guarded ceramic blade probes allow low leakage measurements to <25fA. Dual SSMA connections allow Quasi Kelvin connections for sensitive resistance measurements or ground loop jumpers between multiple probes allowing G-S and G-S-G for higher frequencies.

The 50 OHM STRIPLINE REPLACEMENT PROBES offered by Signatone include a 50 ohm controlled impedance ceramic blade probe for critical measurement applications. These probes are of stripline construction with a metalized back for signal shielding.

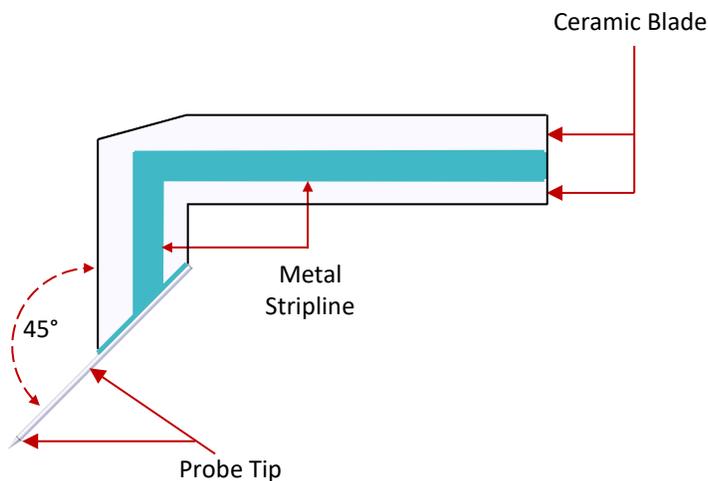
The probe enables the signal path from the device under test to be directly connected to the micro-coaxial cable via the two SSMA connectors (typically terminating in BNC on the other end of the cables- connectors are selectable at time of purchase). The S-CBP has a small mounting post at the one end that couples with the Signatone SCB-PMA (Probe Mount Adapter) The SBC-PMA can be bent or cut to the desired length accommodating virtually any probing configuration.

❖ **Model S-CBP**



❖ **The replaceable blade probes are available in three models**

The Model CZ4 Ceramic Stripline replicable probe tip is designed specifically for use with the Signatone model S-CBP Ceramic Blade Probe. The tip extends 5.5mm from the ceramic blade at a 45° angle ideal for ease of use with Signatone’s “Probe-Shield” when probing at extreme temperatures. Tips are available in tungsten (W) and Beryllium Copper (BeCu)

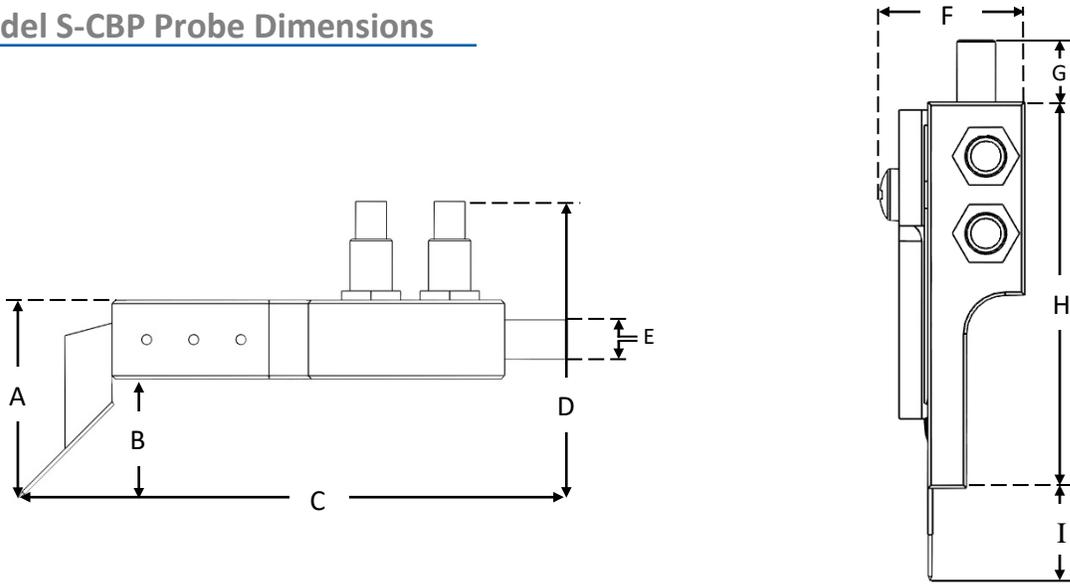


Model CZ4

Ceramic Strip-line
replaceable probe
tips

- CZ4-R-W-1(0)-R = 5μ radius tungsten Tip
- CZ4-R-W-5(0)-R = 25μ radius tungsten Tip
- CZ4-R-C-5 (0)-R = 25μ radius BeCu Tip

❖ **Model S-CBP Probe Dimensions**



A.	16mm	Distance From Tip to Top of Probe Body
B.	9.9mm	Distance From Tip to Bottom of Probe Body
C.	44mm	Overall Length From Tip to Mount Post
D.	24mm	Distance From Tip to Top of SSMA Connectors
E.	3.12mm	Mount Post Diameter
F.	11.6mm	Width of Probe Body
G.	5mm	Length of Mount Post
H.	31.5mm	Length of Probe Without Tip or Mount Post
I.	7.5mm	Length of Probe tip Extension

❖ **Model SBP-PMA Probe Mount Adapter**

Probe Mount Adapter - Collar

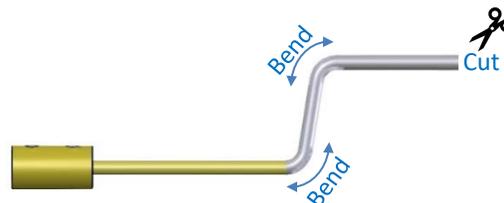


The Probe Mount Adapter Collar has a 3.22mm diameter hole for insertion of the Ceramic Blade Probe Mounting Post. Included are 4 very small (# 2-56) set screws for securing the Post in the Collar

Probe Mount Adapter Shaft



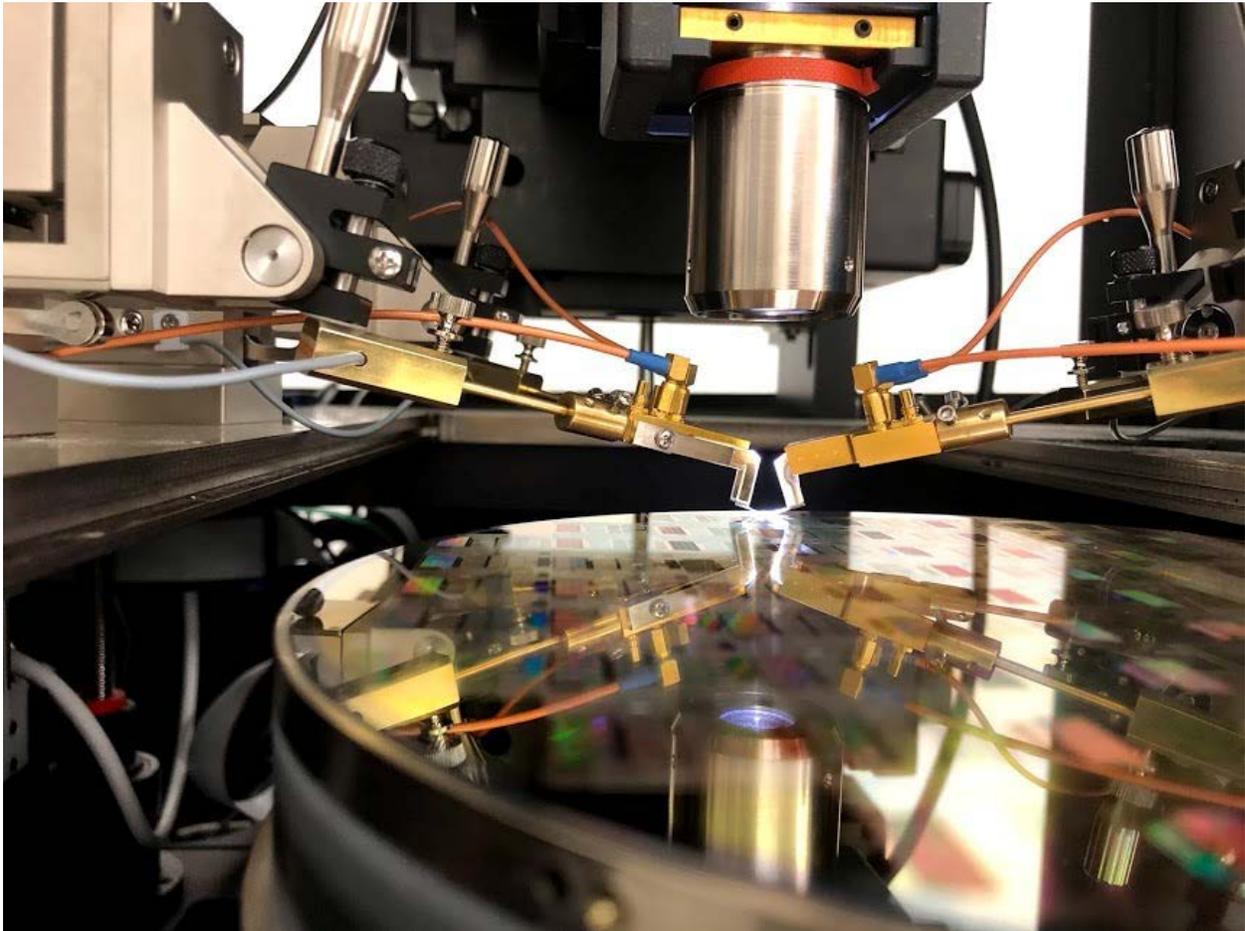
The Probe Mount Adapter Shaft is made out of Brass and is used to extend the Signatone Ceramic Blade Probe from the positioner. The Shaft may be bent or cut to the desired shape and length.



❖ WARRANTY

- Standard Warranty 12 months * (Dose not include replacement tips)
- For Extended Warranty and Service Contracts : Contact Signatone Corp. for more information

* See Signatone Corporate Terms and Conditions of Sale for further details.



System image above includes: 2) S-CBP Blade probes, 4) SSMC cables, 2) SBC-PMA, 2) SP-150 Micropositioners, CheckMate 250 Semi-Automatic probe Station, A-zoom micro scope, and a +300°C Coaxial hot chuck.



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