

Model 80 High Performance Probe Holders

Specifications

The Model 80 series of coaxial/triaxial probe holders and heads, together with our coaxial and triaxial cables, offers features not found in other disposable probe tip systems.

- Stable mechanical arm.
- Direct connection to probe tip.
- Replaceable probe heads.
- Straight, left, and right configurations.
- Modular design for maximum flexibility.

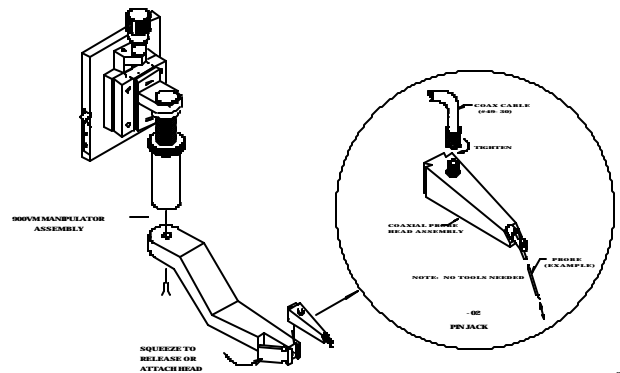
The Model 80 Holder is designed to be rigid and less susceptible to vibration, while maintaining excellent electrical characteristics.

The Model 80 probe head holder can be adapted to either a Model 525 or Model 900VM programmable manipulator.

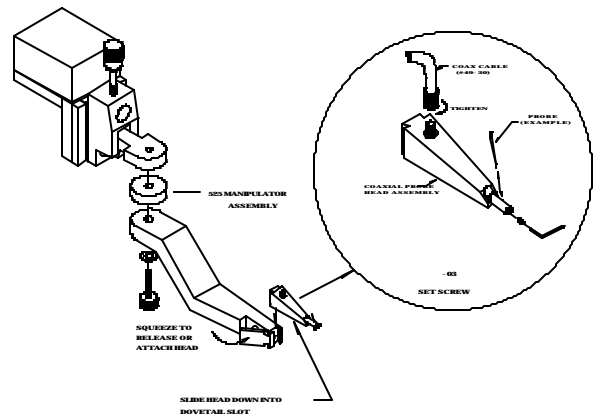
The Model 81 probe heads are constructed of Teflon and provide a cable connection directly to the probe tip. The Teflon probe head is available in a straight, 30° left, or a 30° right orientation. The probe tip may be attached to the probe head using a pre-loaded spring or a set screw.

The probe head can be replaced without tools, making probe tip changes fast and easy.

Adapter systems can be ordered which are connected in-line with the UMC coaxial cable. Networks can be ordered with resistors installed and configured as series, voltage dividers, or terminated in parallel.



Model 900VM application



Model 525 application



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Model 80 Probe Head Holder Part Numbering:

Straight arm 80-RECT-6000 (for 6000 Series stations)
 Angled arm 80-RECT-8000 (for 8000 Series stations)

Model 81 Probe Head Part Numbering:

Part number consists of type, tip attachment and alignment as follows:

Type *Alignment*
XXXX - XX - XXX
 Tip
 Attachment

Type: 81 Coaxial, passive, UMC 81D Coaxial, Kelvin, UMC 81S Coaxial, passive, SMA 81SD Coaxial, Kelvin, SMA 81T Triaxial 81TD Triaxial, Kelvin	Tip Attachment: 02 Spring Loaded, pin jack 03 Set Screw Alignment: S Straight 30L 30° left handed 30R 30° right handed
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Probe Head Holder	Method of securing probe tips	Choice of spring loaded pin jack or set screw.
	Compatible probe tips for pin jack model	Accepts tips with shank diameters 15 to 30 mils. Accepts all model 7 probe tips (20 mil shank)
	Compatible probe tips for set screw model	Accepts tips with shank diameters 15 to 22 mils. Accepts all model 7 probe tips (20 mil shank)
	Isolation	> 10 teraohms between the center conductor and the shield.
	Temperature Range	-65° to + 400°C at DUT.
	Frequency Range	DC to 1Ghz for UMC connector. DC to 2Ghz for SMA connector.
	Wiring	The center conductor is connected to the probe tip. The shield floats, not connected.

Cables:

For *single tip*, order one per probe head.
 For *dual (Kelvin)* applications, order two cables per probe head.

Coaxial; UMC type:

- UMC to BNC: 49-14 (14" long) or 49-30 (30" long)
- UMC to UMC: 46 (30" long)

Triaxial:

- 3 lug triax to 3 lug triax:
81-TCAB-30 (30" long)

Coaxial; SMA type:

- SMA standard to BNC: 51-30 (30" long)
- SMA right angle to BNC: 52-30 (30" long)