

- ◆ Ideal for Phase Matching Multiple Amplifiers
- ◆ Constant Impedance Design
- ◆ Long Life Beryllium Copper Contacts
- ◆ Stops Prevent Accidental Disassembly
- ◆ Reliable Noise-Free Operation
- ◆ Position Locking Provided
- ◆ Minimal RF Insertion Loss



ST-05N with special female connectors

Microlab ST series trombone line stretchers are designed to adjust the electrical separation of other components without introducing additional mismatch. They consist of two single stretchers, see SR series, mounted in series, providing twice the phase range for a given physical size. All step discontinuities have been carefully compensated.

The Microlab/FXR line stretchers are constant impedance devices utilizing a unique inner design eliminating the step discontinuities associated with conventional line stretchers. They are rugged, well designed devices with a proven history. Also available from Microlab/FXR are Slug Tuners, SF series; Stub Tuners, see S1-S3 series; and Stub Stretchers, see SL series.

Options for different polarity or alternate connectors are available on request (1/13)

Frequency Range:	0.25 to 4 GHz usable to DC
Impedance:	50Ω nominal
Insertion Loss Closed/Expanded:	
< 2.0 GHz	0.25/0.70 dB typ.
2 - 4 GHz	0.70/1.20 dB typ.
VSWR: < 2 GHz	1.25:1 max.
2 - 4 GHz	1.45:1 max
Power Rating:	100 W avg., 5 kW pk.
Temperature:	-55°C to +150°C
Connectors:	N, male-male
Finish:	Silver or Triplate

Model No. N (m-m) standard	Model No. SMA (m-f) special order	Adjustment Range at 500 MHz	Minimum Overall Length in. (mm)	Maximum Overall Length in. (mm)	Dimension 'A' in. (mm)
ST-05N	ST-05F	360° min.	27.4 (696)	39.4 (1001)	26.3 (668)
ST-15N	ST-15F	120° min.	11.4 (290)	15.4 (391)	10.3 (262)

### Outline

