



# SLIDING TERMINATIONS

## Modular Connectors



Model 2517A

### Description

The 2507 and 2517A are high precision, movable, low-reflection, broadband terminations for making precision measurements covering the frequency range of 0.9 to 18 GHz. They are true modular instruments since they are provided with interchangeable LPC7 and type N (female and male) connectors. Optional precision adapters for other connectors are also available.

Both terminations are provided with beadless (air dielectric) connectors and feature movable center conductors which can, with the aid of an appropriate connector gage, be set for a flush interface condition.

Both models are provided in foam-lined wooden instrument cases.

### Specifications

Frequency Range ..... See chart  
 Model 2507 Terminating Element VSWR<sup>1</sup>:  
 0.9 to 1.5 GHz ..... 1.08 maximum  
 1.5 to 2.0 GHz ..... 1.05 maximum  
 2.0 to 18.0 GHz ..... 1.03 maximum  
 Model 2517A Terminating Element VSWR<sup>1</sup>:  
 1.8 to 18.0 GHz ..... 1.04 maximum  
 Impedance (nominal) ..... 50±0.15 ohm  
 Transmission Line Size ..... 7mm  
 (0.1197±0.0001/0 ....0.2756±0.0003 dia.)  
 Power Rating ..... See chart  
 Travel ..... >1/2 wavelength at lowest frequency  
 Connectors ..... Three (3) precision air adapters  
 LPC7<sup>2</sup>, type N female and male<sup>3</sup>  
 Center Conductor ..... Silver plated stainless steel  
 Accessories (provided) ..... Instrument case and  
 operating instructions

### Available Models

Model	Frequency Range	Air Line Accuracy <sup>4</sup>	Power Handling	Connectors Provided
2507	0.9 — 18.0 GHz	56 dB	1.0 watt CW, 5.0 kW peak	Beadless LPC7
2517A	1.8 — 18.0 GHz	54 dB	1.0 watt CW, 1.0 kW peak	Type N (female and male)

<sup>1</sup> Maximum VSWR (50 ohm reference) of the terminating element alone.

<sup>2</sup> Air interface connector with a spring-loaded, self-centering center contact that mates with standard 7mm connectors per Maury data sheet 5E-061.

<sup>3</sup> Precision stainless steel N per Maury data sheet 5E-049.

<sup>4</sup> Equivalent return loss of the air line impedance (50 ohm reference).