



# PRECISION AIR LINE KITS

## TRL/LRL AIR LINE SET MODEL 2735K



Model 2735K

### Description

The Maury 2735K beadless air line set is used in conjunction with the 2750 series of 7-16 connector precision calibration kits. This set of air lines provides the user with the capability of performing full 2-port TRL/LRL (Through-Reflect-Line, Line-Reflect-Line) calibrations to 7.5 GHz. The air line set consists of three high precision air lines of various lengths that meet NIST and Agilent's recommendation of 30 degrees phase margin. Test port adapter accessories are listed below.

### Connector Description

The 7-16 connectors found on the components in these kits are rugged, calibration grade connectors that exceed the requirements for IEC169-4 reference grade and BSEN122190 grade 0 specifications. They feature retracted threads on the female connector to eliminate the need to apply excessive torque during calibration and test, and tighter tolerance control than called for in the IEC and BSEN specifications to reduce uncertainties.

### Specifications

#### Air Lines<sup>1</sup>:

Model 2735A6.0, 6cm	
Model 2735A7.5, 7.5cm	
Model 2735A30, 30cm	
Frequency Range .....	DC to 7.5 GHz
Return Loss Excluding Connector Interfaces .....	60 dB minimum
Characteristic Impedance .....	50 ±.05 ohms
	where skin depth is negligible
Connector .....	Precision 7-16 female — male

### Recommended Accessories

#### Test Port Adapters<sup>1</sup>:

Model 2707C, 7mm to 7-16 (m) adapter	
VSWR (maximum) .....	1.03
Model 2706E, type N (f) to 7-16 (m) adapter	
Model 2706F, type N (m) to 7-16 (m) adapter	
VSWR (maximum) .....	1.03

<sup>1</sup> A test port adapter is required when using precision beadless air lines.