

# AMBIENT NOISE TERMINATIONS

## Reference Temperature Noise Sources



2659A



J309A

### Description

Maury ambient terminations are room temperature noise sources consisting of a stable termination in a massive copper housing to provide thermal stability and to reduce the effects of thermal transients.

These terminations are used as a reference temperature noise source for highly accurate noise figure or effective input noise temperature measurements, as an “on-line” standard for calibrating the operating noise temperature of low noise receiving systems, and in the calibration of solid state noise generators.

Each unit is provided with a direct reading dial thermometer calibrated from -5° to 45°C with better than 0.5° resolution and accuracy. The thermometer receptacle in the housing will also accept a quartz thermometer probe which, when connected to an appropriate unit, will provide for a remote temperature readout.

The units listed below are typical of those available. Please consult the factory for terminations in waveguide sizes, connector types or frequency ranges not shown here.

### Available Models

Model	Frequency Range (GHz)	VSWR (maximum)	Connector or EIA Waveguide Size
2459A1	DC — 8.5	1.02, DC — 1.0 1.04, 1.0 — 4.0 1.06, 4.0 — 8.5	14mm (GR900)
2659A	DC — 18.0	1.04, DC — 4.0 1.08, 4.0 — 12.0 1.10, 12.0 — 18.0	7mm
R309B	2.2 — 2.3	1.05	WR430 <sup>1</sup>
E309A	3.7 — 4.2	1.05	WR229 <sup>1</sup>
X309A	8.2 — 12.4	1.05	WR90 <sup>2</sup>
M309A	10.0 — 15.0	1.05	WR75 <sup>3</sup>
P309A	12.4 — 18.0	1.05	WR62 <sup>2</sup>
K309B	21.0 — 23.0	1.05	WR42 <sup>2</sup>
J309A	33.0 — 50.0	1.05	WR22 <sup>2</sup>
U309B	36.0 — 38.0	1.05	WR28 <sup>2</sup>

<sup>1</sup> Flange mates with the applicable CPR flange.

<sup>2</sup> Flange mates with the applicable military (UG) flange.

<sup>3</sup> Flange mates with most applicable standard military and industrial flanges.