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[1]
E309A	3.7 — 4.2	1.05	WR229[1]
X309A	8.2 — 12.4	1.05	WR90[2]
M309A	10.0 — 15.0	1.05	WR75[3]
P309A	12.4 — 18.0	1.05	WR62[2]
K309B	21.0 — 23.0	1.05	WR42[2]
J309A	33.0 — 50.0	1.05	WR22[2]
U309B	36.0 — 38.0	1.05	WR28[2]

[1] Flange mates with the applicable CPR flange.

[2] Flange mates with the applicable military (UG) flange.

[2] Flange mates with most applicable standard military and industrial flanges.

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