

Broadband Characterization of High Temperature Black Body Source with Fourier Transform Michelson Interferometer for ECE Measurements

Calibration

- Signal level is low
- Requires long time averaging - To increase S/N ratio
- Requires high temperature source - To reduce averaging time

Development of High Temperature Source

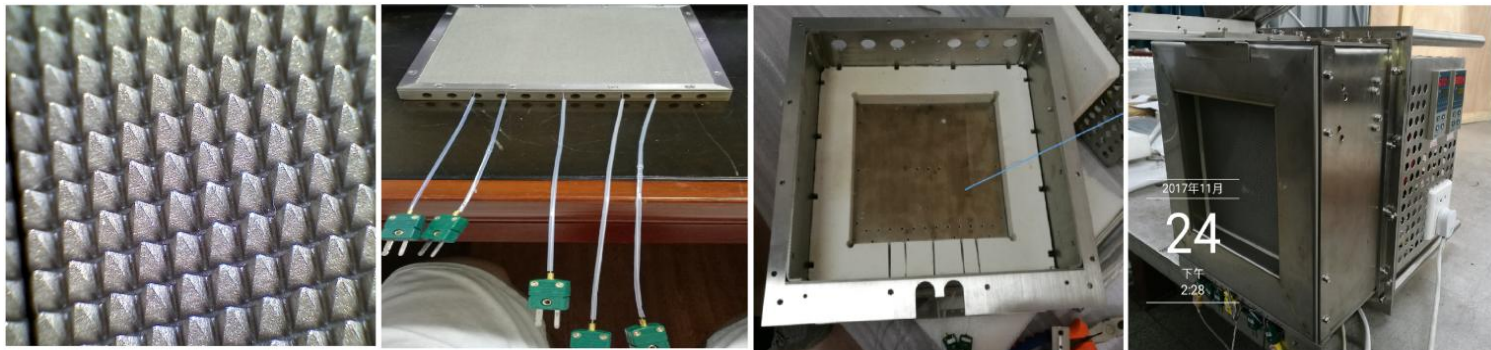


Fig. 1(a) Radiating Surface 1(b) SiC Coated Plate 1(c) Source Assembly 1(d) Dev. Calibration Source

Source Characterization

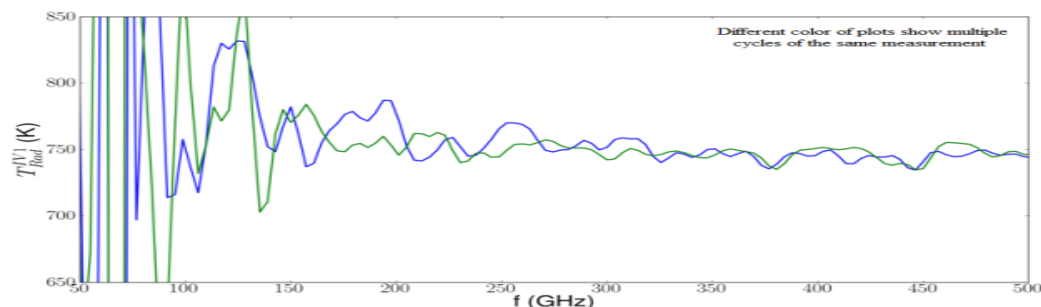


Fig. 2. Radiation temperature of heated source