



BIRNS Millennium 3G-C Coaxial Preliminary Test Results

Testing was conducted on a 3G-C-BR mated to a 3G-C-CP terminated with 50 cm of 52A-174 (RG-174) and BNC connector. The customer requested 1.3 VSWR (Voltage Standing Wave Ratio) for 50 Ω characteristic impedance connector for a RTK (Real Time Kinematic) GPS. BIRNS subcontracted the testing to an independent electronics test laboratory, and received results as follows:

1. @ 1.575 Ghz 50 Ω , the VSWR was 1.1610.
2. @ 1.600 Ghz 50 Ω , the VSWR was 1.1006.

The maximum peaks were at:

3. @ 1.460 Ghz: 1.257 VSWR
4. @ 1.295 Ghz: 1.254 VSWR
5. @ 1.625 Ghz: 1.218 VSWR