

APPENDIX A:

Specifications

- **Frequency Generation & Control:**
 - 1 - 30 MHz
 - Source Impedance: 50-Ohms
 - Stability: +/- 50 ppm
 - Spectral Purity: Harmonics down >-35 dB beyond 30 MHz
 - Step Size: User configurable increments of 10 Hz, 100 Hz, 1 kHz, 10 kHz, and 100 kHz
- **Usable Measurement Range:**
 - SWR: 1.0 to 9.9
 - Impedance: approx. 5 to 600 ohms
- **RF Output:**
 - 2 Volts p-p (typical)
- **Power Supply:**
 - External: 9-to-16.0 Volts DC
 - Internal: Eight AA-cells, alkaline or NiMH
 - Current Requirements: 200 ma (typical)
- **User Interface:**
 - Pushbuttons (5): “Mode”, “Band”, “Scan”, “Setup”, “On/Off”
 - Rotary Encoder: “Tuning”, 24-position/rotation, smooth/detentless operation
 - LED: “Busy”
 - 2 line x 16 character LCD display, with optional backlight under software control, configured in SETUP menus. Backlight may be configured to turn off after user-set period of inactivity. If enabled, backlight turns on again with any of the controls are touched.
- **Power Control:**
 - Power applied by press-and-hold of On/Off momentary contact pushbutton
 - Instrument turns itself off after preset period of inactivity, configured in SETUP menus
- **Connectors:**
 - External Power: 2.1mm coaxial power plug (center pin positive)
 - RF Out: BNC
 - Serial Port: RS232 (DB9F)
- **Environmental**
 - Temperature: 0-70C
 - Humidity: 0-100% RH