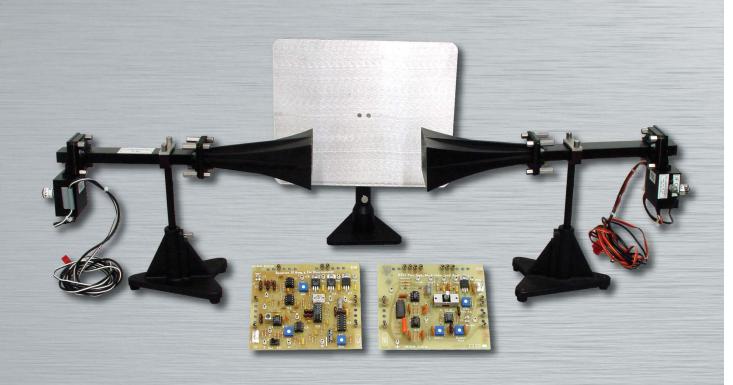
Microwave Training System



Model 3300 Series

Reliable communications equipment is paramount to providing vital links between distant individuals, companies, and nations. Today's worldwide communications depend on a complex network of microwave systems maintained by telecommunications technicians. The E & L-Nida Model 3300 Series Microwave Training Systems are designed to teach technicians microwave system operation, maintenance, and troubleshooting. The Model 3300 Series includes basic microwave systems, microwave communications, microwave standing wave ratio measurement, and microwave reflections. Designed original for military training

applications, the Model 3300 Series utilises E & L-Nida CAI courseware to teach the many concepts and principles of microwave technology. It incorporates the Model 130E trainers to reinforce the through comprehensive theory experimentation, observation, and troubleshooting. The Model 3300 Series Microwave Training System is not a simulation; it is actual microwave equipment capable of transmitting and receiving signals in voice, data, or video across the room or across the campus. The Model 3300 Series Microwave Training System: reliable for ensuring reliable training communications.

E & L-Nida Model 3300 Series







Features

- **1. Model 3301 Basic Microwave Training System** Includes transmit and receive cards, DRO, IDC, Wave guides, horns, and stands.
- **2. Model 3302 Microwave Communications Option -** Provides circuit cards and associated hardware for Audio Interface, TDM, FDM, Quad Tone Generation, PCM, FSK, PSK, and Digital signal Source microwave experiments.
- 3. Model 3303 Standing Wave Ratio Measurement Option- Includes Microwave RMS and DB meter, wavemeter, tuner, crystal detector, cross guide coupler, slotted line probe, termination unit, directional coupler, shorting plate, and all associated hardware.
- **4. Model 3304 Microwave Reflections Option** Provides additional wave guides, azimuth mount antenna, 90 degree twist, polarisation grating (not shown), and parabolic reflector (shown).

Specifications

Dielectric Resonant Oscillator (DRO)

Output Frequency - 10.5 GHz
Mechanical Tuning - 100 MHz Min
Output Power - 10 dB Min
Frequency Stability - 10 ppm/c Max
Frequency Deviation - 10 MHz Min
Control Voltage - 0 to 10 VDC (25 Max)
RF Connector - UG39/U
Control Connector - Filter Feed-Thru
Power Supply - +12 VDC

Integrated Down Converter (IDC)

RF Input Frequency - 10.5 GHz Max RF Power - +20 dBm Conversion Loss - 8 dBm Max Noise Figure - 9 dBm Max Mechanical Tuning - 100 MHz Min Frequency Deviation - 10 MHz Min Frequency Stability - 10 ppm/c Max Power Supply - +12 VDC

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