The Model 270 Microwave Amplifier System consists of three amplifiers, 1 to 2.5 GHz, 2 to 6.5 GHz, and 6.5 to 18 GHz, and is designed to provide 250 Watts of CW output power over the frequency range of 1 to 18 GHz.

Using the IEEE-488 compatible interface, the amplifiers can be rapidly switched allowing virtual uninterrupted frequency coverage over the 1 to 18 GHz frequency range. Harmonic filters are electronically selected so that a harmonic rejection of -20 dBc is maintained over the entire frequency range.
Model 270 Microwave Amplifier

**SPECIFICATIONS**

- **Power Output**: 1 to 18 GHz, 250 Watts
- **Duty Cycle**: CW Operation
- **RF Input**: 0 dBm
- **Harmonics**: -20 dBc
- **Phase Noise**: < ±1° pk to pk
- **Amplitude Variation**: 0.1 dB, Maximum
- **Spurious Outputs**: -50 dBc, Maximum
- **Noise Figure**: 35 dB, Nominal
- **RF Connectors**: Precision Type N (1-6.5 GHz) or WRD-650 (6.5-18 GHz)
- **Primary Power**: 208 VAC 3-phase, 36 Amps ± 10%, 60 Hz
- **Operating Temperature**: 0 to 50°C
- **Weight**: 750 lbs, Nominal
- **Dimensions**: 68(H)x29(W)x36(D)

**Standard Equipment**
- Input Isolator
- Filament / Operate Time
- IEEE-488 Remote Interface
- Reverse Power Monitor
- Forward and Reverse RF Sample Ports

**Options**
- RS-232/422 Remote Interface
- Other Primary Power
- Outdoor Enclosure
- RF Connectors on Front Panel