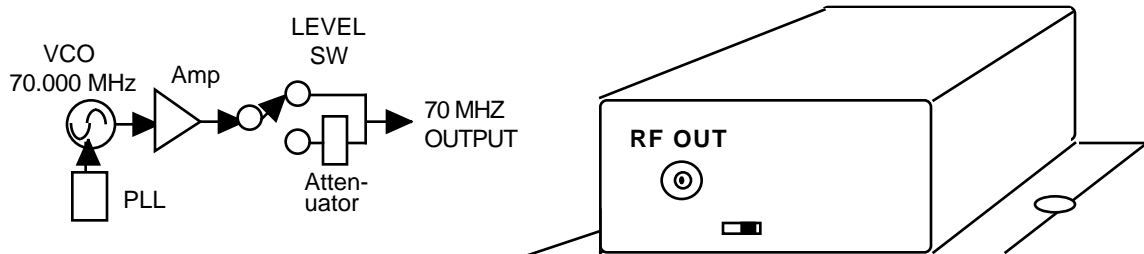


Model 2098-007 Frequency Source

The Model 2098-007 Frequency Source, is a 70 MHz, synthesized frequency generator.

EQUIPMENT DESCRIPTION

The 70.000 MHz signal is generated by the VCO controlled by the Phase Lock Loop circuit which is referenced to a 25 MHz Crystal oscillator. The 70 MHz is applied to an amplifier and then to the output switch/attenuator providing a level of 0.0 dBm (high) or -15 dBm (low). A green LED indicates the presence of DC power. Power is provided by a wall transformer for 115 VAC, 60Hz and provides +15 VDC at 150 ma. The **Option -P4** wall power supply covers 90-260 VAC, 47-63 Hz. Specify US, EUR, AUS or UK plug for the **-P4** option. The connector is BNC female for the 70 MHz output and the impedance is 75 ohms.



2098-007 Frequency Source Block Diagram and Chassis

EQUIPMENT SPECIFICATIONS*

Output Characteristics

| | |
|-------------|---|
| Impedance | 75 |
| Return Loss | >15 dB |
| Frequency | 70.000 ± 0.0005 MHz |
| Level | 0.0 dBm ±0.5 dB(high level); -15 dBm ± 0.5 dB(low level) |
| Harmonics | < -30 dBC, max, -35 dBC typ for second and third, <-50 dBC for all others |
| Spurious | < -60 dBC, max |

Synthesizer Characteristics

| | |
|----------------------|---|
| Frequency Accuracy | ± 0.5 kHz max. over time and temperature, ± 0.25 kHz, typical |
| Phase Noise (dBc/Hz) | -100, 10 kHz; -120, 100 kHz; -130, 1 MHz |
| Frequency Selection | NONE: Fixed tuned |

Controls/Indicators

| | |
|--------------|--|
| Level Select | Slide switch selects High (0 dBm) or Low (-15 dBm) level |
| DC Power | Green LED |

Other

| | |
|---------------------|---|
| RF Output Connector | BNC, female |
| Size (W x H x D) | 3.3 x 1.2 x 4.0 (in.); 83.8 x 30.5 x 101.6 (mm) |
| Power | Wall power supply is for 115 VAC, 60Hz and provides +15 VDC, 150 ma option -P4 covers 90-260 VAC, 47-63 Hz. Specify US, EUR, AUS or UK plug |

*+10 to +40 degrees C; 2000 meters max elevation; 80% max humidity; Pollution Degree 2; Specifications subject to change without notice

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