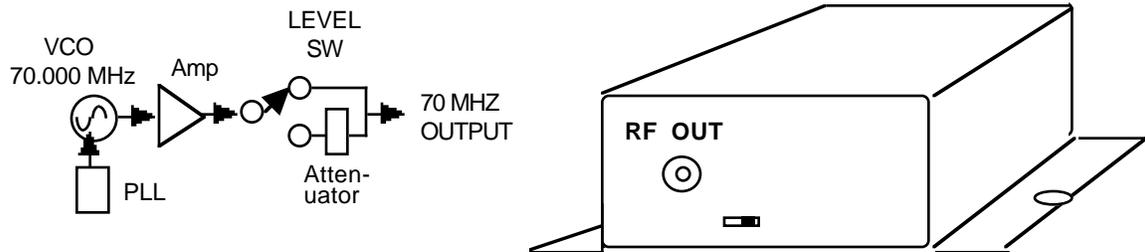


Model 2098-007 Frequency Source

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 Ω
Return Loss	>15 dB
Frequency	70.000 \pm 0.0005 MHz
Level	0.0 dBm \pm 0.5 dB(high level); -15 dBm \pm 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	\pm 0.5 kHz max. over time and temperature, \pm 0.25 kHz, typical
Phase Noise (dBC/Hz)	\leq -100, 10 kHz; \leq -120, 100 kHz; \leq -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 100-240 \pm 10% 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