

Table 1-1. Specifications (Sheet 2 of 2).

REAR PANEL OUTPUTS

Frequency Monitor:
170mVrms min. into 50Ω.

Q Analog Output:
1V ±50mV dc at full scale, proportional to meter deflection, output impedance approx. 1kΩ.

Over Limit Signal Output:
Single pole relay contact output, one side grounded, relay contact capacity 0.5A/15VA.

Over Limit Display Time:
Switch-selectable, 1sec. or continuous.

GENERAL

Operating Temperature Range:
0°C to 50°C.

Warm-up Time: 30 minutes.

Power: 115 or 230V ±10%, 48 - 440Hz, approx. 25VA.

Weight: Approx. 31 lbs (14kg).

Accessories Furnished:
Power Cord

Accessories Available:
16471A through 16490A, and 16465A Supplemental Inductors.
16462A Auxiliary Capacitor.
16014A Series Loss Test Adapter.
16451A Dielectric Test Adapter.

Extender Board 15pin
(Part No. 5060-4940).

Extender Board 6pin
(Part No. 5060-0651).

OPTION 001:

This option covers a frequency range of 10kHz to 32MHz. Specifications are identical with those of the standard model except as noted below.

Oscillator Frequency Range:
10kHz to 32MHz in 7 bands (10 to 32kHz, 32 to 100kHz, 100 to 320kHz, 320 to 1000kHz, 1 to 3.2MHz, 3.2 to 10MHz, and 10 to 32MHz).

Frequency Accuracy:
±1.5% at 10kHz to 10MHz.
±2% at 10MHz to 32MHz.
±1% at "L" point on frequency dial.

Q Tolerance: % of indicated value (at 25°C)

Q		
5 - 300	300 - 600	600 - 1000
±7%	±10%	±15%

DIMENSIONS:

NOTE:
DIMENSION IN INCHES AND (MILLIMETERS).

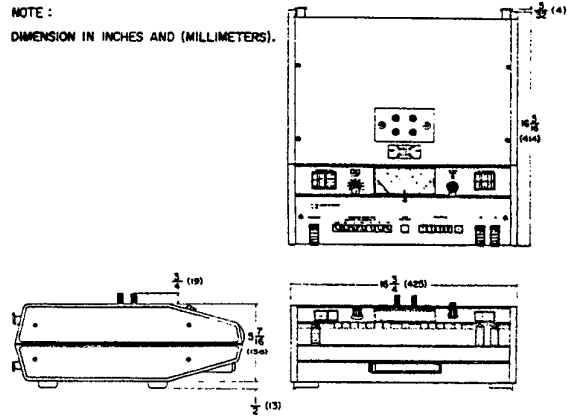


Table 1-1. Specifications (Sheet 1 of 2).

FREQUENCY CHARACTERISTICS

Measurement Frequency Range:
22kHz to 70MHz in 7 bands (22 to 70kHz, 70 to 220kHz, 220 to 700kHz, 700 to 2200kHz, 2.2 to 7MHz, 7 to 22MHz, and 22 to 70MHz).

Frequency Dial Accuracy:
±1.5% at 22kHz to 22MHz,
±2% at 22MHz to 70MHz,
±1% at "L" point on frequency dial.

Frequency Dial Resolution:
Approximately ±1%.

Q MEASUREMENT CHARACTERISTICS

Q Range:
5 to 1000 in 4 ranges (5 to 30, 20 to 100, 50 to 300, and 200 to 1000).

Q Tolerance: % of indicated value
(at 25°C)

Q	Fre- quency	
	22kHz - 30MHz	30MHz - 70MHz
5 - 300	±7%	±10%
300 - 600	±10%	±15%
600 - 1000	±15%	±20%

Q Resolution:
Upper scale: 1 from 20 to 100,
Lower scale: 0.5 from 5 to 30.

ΔQ Range:
0 to 100 in 4 ranges, 0 to 3, 0 to 10, 0 to 30, 0 to 100.

ΔQ Tolerance:
±10% of full scale.

ΔQ Resolution:
Upper scale: 0.1 from 0 to 10,
Lower scale: 0.05 from 0 to 3.

INDUCTANCE MEASUREMENT CHARACTERISTICS

L Range:
0.09μH to 1.2H, direct reading for seven specific frequencies as marked at the frequency dial "L" scale point and selected by the frequency range switches.

L Accuracy:
±3% after compensation for residual inductance (approx. 10nH).

TUNING CAPACITOR CHARACTERISTICS

Capacitance Range:
Main dial capacitor: 25 to 470pF
Vernier dial capacitor: -5 to +5pF

Capacitance Dial Accuracy:
Main dial: ±1% or 1pF whichever is greater.
Vernier dial: ±0.1pF.

Capacitance Resolution:
Main dial: 1pF from 25 to 30pF,
2pF from 30 to 200pF,
5pF from 200 to 470pF.
Vernier dial: 0.1pF.