

2. SPECIFICATIONS

FREQUENCY

Range: 0.1 - 30 MHz, 30 - 110 MHz
2 ranges

Display: 6 digits with leading zero
suppression

Resolution:
0.1 - 30 MHz 100 Hz
30 - 110 MHz 1 kHz

Accuracy: Within $\pm(5 \times 10^{-5} + 1 \text{ count})$

Drift: Within $\pm 5 \times 10^{-5}$

RF OUTPUT

Range: -19 dB to 99 dB
(0 dB = 1 μ V, open circuit)

Display: 2 digits

Reference level accuracy: Within ± 1 dB
at 99 dB

Attenuator accuracy:
Within ± 1.5 dB (Output ≥ 0 dB)
Within ± 2 dB (Output < 0 dB)

Output Impedance: 50 Ω
VSWR < 1.2
(Output ≤ 66 dB)

Spurious: -30 dB or less

Residual modulation (S/N)

FM component: As S/N relative to
75 kHz deviation, 80 dB or more
(post-detection BW
50 Hz to 15 kHz)

AM component: As S/N relative to
30% AM, 55 dB or more

MODULATION

Internal modulation frequencies:
400 Hz, 1 kHz, within $\pm 3\%$

External modulation input impedance:
10 k Ω nominal

FM (For carrier frequencies above 200 kHz)

Deviation: 0 to 100 kHz

Meter: 10, 30, 100 kHz full scale
Accuracy: $\pm 10\%$ of f.s.d.

Distortion: At 75 kHz deviation, with
post-detection BW of 50 Hz
to 15 kHz and with 50 μ s
de-emphasis

(1) $\leq 0.1\%$
(2) $\leq 0.05\%$ (1 kHz rate, RF
10.7 ± 1 , 76-108 MHz)

Ext. mod. freq. response:
20 Hz to 100 kHz, within
 ± 1 dB (with reference to 1 kHz)

Separation for MPX stereo signal:
 ≥ 55 dB (test tone 1 kHz, 75 kHz
deviation, RF 76-108 MHz)

MODULATION (cont'd)

AM

Range: 0 to 60%

Meter: 10, 30, 100% full scale
Accuracy: $\pm 10\%$ of f.s.d.

Distortion: Less than 0.5% (0.1 - 30 MHz,
30% AM)
Less than 1.5% (30 - 110 MHz,
30% AM)

Incidental FM on AM (30% AM, 1kHz rate)
 ≤ 150 Hz (RF: 1-30 MHz)
 ≤ 300 Hz (RF: 30-108 MHz)

Ext. mod. freq. response:
20 Hz to 10 kHz, within
 ± 1 dB (with reference to
1 kHz, carrier frequencies
from 0.1 to 30 MHz)

PRESET

- (1) F-L-M Assorted Preset
Carrier frequency (F), output level (L) and
modulation functions (M) are assorted together
and can be stored or recalled.
32 assorted data can be preset.
 - (2) Independent Output Level Preset
4 output levels can be stored and recalled
independently of carrier frequency and
modulation functions.
In this case, the presettable F-L-M assorted
data will decrease from 32 to 28.
- (NOTES)
1. Preset frequency resolution:
200 Hz (0.1 - 30 MHz), 2 kHz (30 - 110 MHz)
 2. Presettable output level range: 0 to 99 dB

REMOTE CONTROL

- (1) Recall operation of preset data.
- (2) Modulation ON/OFF.
- (3) Frequency increment control.
- (4) Output level control in 1-dB steps.
- (5) Frequency up/down and clear operation in
normal mode.

MISCELLANEOUS

Leakage: Will not interfere with measurement
of 0 dB (1 μ V)

Power requirements: 100 V $\pm 10\%$, 50/60 Hz,
12 VA approximately
(alterable voltages are 115, 215 or 240 V)

Dimensions: 426mm(W), 99mm(H), 250mm(D)
excluding legs, knobs, etc.

Weight: 7 kg approximately

ACCESSORIES

- 1 ---- Output cable
- 1 ---- Grounding adapter for power cord
- 1 ---- Spare fuse, 0.5 A
- 1 ---- Instruction manual