

Specifications

Frequency

Range:

2410: 0.01 to 1100 MHz

2405: 0.01 to 550 MHz

Resolution: Digital display, 0.1 Hz.

Frequency Stability (0° to 50° C):

Standard: 2.5 ppm

Optional: 0.1 ppm

Frequency Stability (Aging): < 1 ppm/year.

Switching Speed: 200 ms ± 100 Hz of final value in CW; changes < 10 kHz in FM, typical 100 ms

Warm-up Time: 1 hr

External Reference: 10 MHz

RF Output

Impedance: 50 Ω (SWR 1.5:1 @ output level < -3 dBm)

Output Connector: Type N, female

Output Level Range: -127 to +13 dBm

Output Resolution: 0.1 dB

Level Accuracy: ± 1.5 dB

Flatness: ± 1 dB

EMI/RFI Leakage: < 1.0 μV into a 2 turn, 1 in. dia loop, 1 in from any surface (@ 550 MHz)

Spectral Purity

Harmonics:

For CW: < 10 MHz: < -30 dBc

For CW: > 10 MHz: < -26 dBc

Subharmonics (> 550 MHz): < 25 dBc

Nonharmonics:

Spurious: < 5 kHz from Carrier: < -55 dBc

Phase Noise @ 500 MHz:

10 kHz offset: -109 dBc guaranteed

20 kHz offset: -113 dBc guaranteed

Residual AM, Mod Off (50 Hz to 15 kHz

Postdetector BW): -60 dBc

Residual FM, Mod Off:

PDBW	0.3 to 3 kHz	0.05 to 15 kHz
< 137.5 MHz	< 15 Hz	< 20 Hz
137.5 to 275 MHz	< 8 Hz	< 12.5 Hz

Modulation

Types: AM, FM

Internal Source: 400 Hz, 1 kHz

External Source: 400 Hz, 1 kHz

AM Freq. Response (0-50%): 10 Hz to 50 kHz

AM Resolution: 0.1%

AM Accuracy, (0 to 90%): ± (1% Full Scale + 5% of Reading)

AM Range: 0 to 99.9%

AM Distortion:

< 90% AM: < 5%

< 70% AM: < 3%

< 30% AM: < 1.5%

FM Rate: 50 Hz to 100 kHz (3 dB BW)

FM Resolution:

For FM < 100 kHz: 100 Hz

For FM > 100 kHz: 1 kHz

FM Accuracy: ± 5% of indicated setting at 1 kHz or 400 Hz rate excluding residual FM.

FM Deviation Range:

0.01 MHz < CW < 1 MHz: 0 to 10 kHz

1 MHz < CW < 3 MHz: 0 to 100 kHz

3 MHz < CW < 137.49999 MHz: 0 to 1 MHz

137.49999 MHz < CW < 275 MHz: 0 to 500 kHz

CW > 275 MHz: 0 to 1 MHz

FM Distortion:

Internal Source: < 2% harmonic distortion at

1 kHz or 400 Hz rate, FM < 100 kHz peak

External Source: < 0.5% at 1 kHz or 400 Hz rate,

FM < 100 kHz peak

General

Front Panel Control: Push buttons, GPIB

Reverse Power Protection: 50 watts

GPIB (Standard):

Interface: GPIB IEEE-488-1978, 1987

Functions: T6, L4, SH1, AH1, RL1, DC1, DT1, E2,

SR1, TE0, LE0, PP0, C0

Features:

- 20 nonvolatile stored settings standard.
- Front-panel programming of GPIB address.
- Power-on confidence check.
- AutoCal™ frequency and level calibration.

Dimensions: 13.2 cm (5.2 in) high, 31.8 cm (12.5 in) wide, 53.3 cm (21 in) deep

Weight: 12.7 kg (28 lb)

Power: 100, 115, 215 or 230 Vac ± 10%

Environment: MIL-T-28800C, Class 5

95% humidity, noncondensing

Operating Temp. Range: 0° to 50° C

Factory/FOB

Indianapolis, Indiana

For more information, contact your local Wavetek representative (pp 91-96)