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Specifications

The information below describes the specifications of the HP 83402A. The values were determined at the factory and are based upon measurements using a calibrated HP 8702A system, optical power meter, and optical spectrum analyzer.

The following section, under the heading PERFORMANCE TESTS, contains procedures to test and verify the values listed in the Table of Specifications below.

Weight and Dimensions

Net Weight: 1.5 kilograms
Width: 8.5 cm
Height: 8.5 cm
Length: 23 cm

Temperature Limits

Non-Operating: −40 to 55°C
Operating: 0 to 55°C

Absolute Maximum Ratings (do not exceed)

- RF input power: 20 dBm
- DC power input: −12.6 to −15 volts and +15 to +17 volts
- DC into RF port: 20 volts

Assumptions or Conditions

(where applicable, listed by number in the Table of Specifications)

1. Applies at 25 ±5 degrees Celsius.
2. Optical connector: HMS 10/HP Diamond. (The use of an index matching oil may be required to meet specifications.)*
3. Instrument must be warmed-up for one-half hour.
4. Factory test system.
5. Receiver: HP 83411A with disc calibration data.
6. HP 85047A Electrical Test Set.
7. No intensity modulation applied.

* The index matching oil currently recommended is available as HP part number 6040-0648.

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TABLE OF SPECIFICATIONS

- CENTER WAVELENGTH, conditions: 1 — 4, 7.
  minimum: 1288 nanometers
  typical: 1308 nanometers
  maximum: 1328 nanometers
- TYPICAL CENTER WAVELENGTH STABILITY, assumptions: 1 and 7.
  0.3% per year
- SPECTRAL WIDTH, assumptions: 1 — 4, 7.
  maximum: 3.0 nanometers
- AVERAGE POWER OUT, assumptions 1 — 4, 7.
  minimum: 600 microwatts
  typical: 1700 microwatts
  maximum: 2800 microwatts
- TYPICAL POWER STABILITY: 1 and 7.
  0.6% per 1000 hours
- MODULATION FREQUENCY RESPONSE, conditions: 1 — 5.
  +/−5.0 dB (Watts/ampere)
  at 0 dBm RF input 300 kHz to 6 GHz.

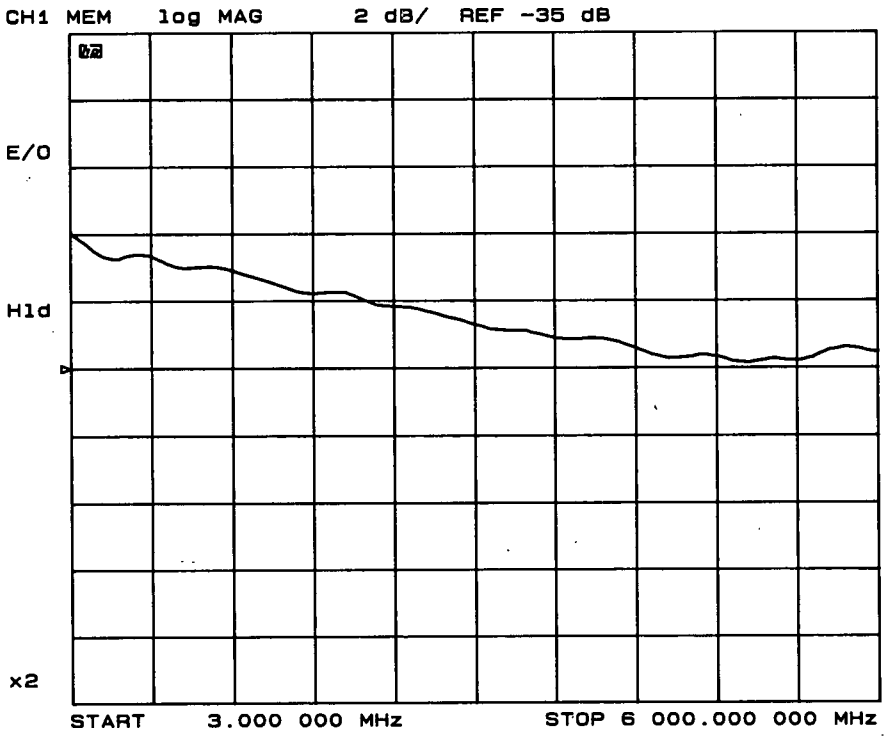


Figure 5. Typical MOD FREQ RESP PLOT

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- ELECTRICAL INPUT MATCH, assumptions: 1 — 6.

  minimum: 13 dB using an HP 85047A Test Set, 3 MHz to 6 GHz.

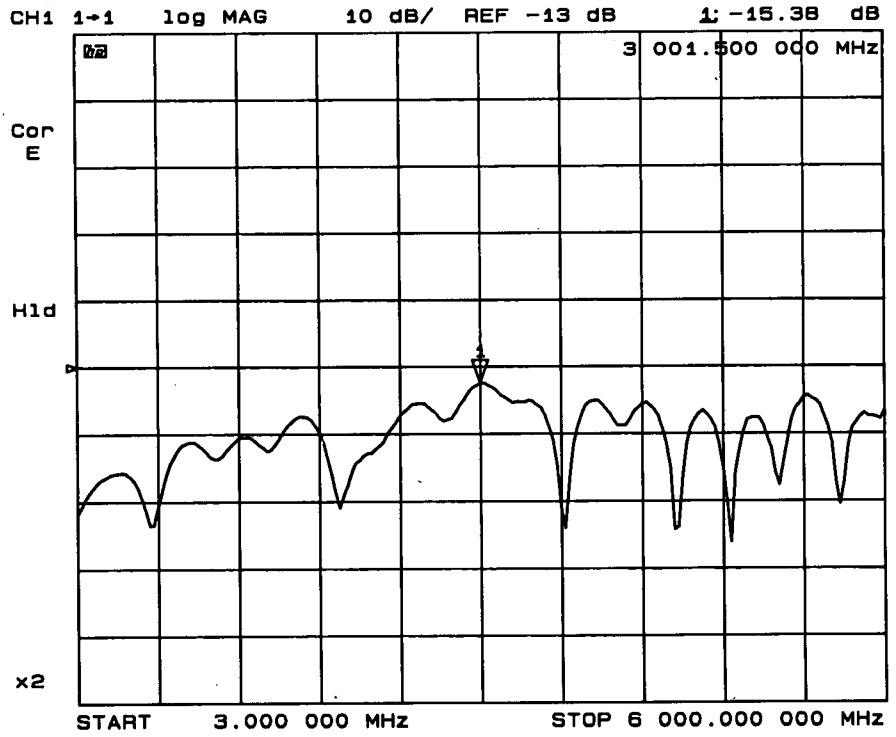


Figure 6. Typical Electrical Input Port Return Loss

OTHER TYPICAL SPECIFICATIONS

- RESPONSIVITY, at 50 MHz modulation frequency:

  0.022 Watts/Amp or −34 dB

- DYNAMIC ACCURACY

  300 kHz to 3 GHz, RF power −26 to +14 dBm, referenced to −6 dBm: +/−1 dB (Watts/Ampere)

  3 GHz to 6 GHz, RF power −46 to −6 dBm, referenced to −26 dBm: +/−1 dB (Watts/Ampere)

- MODULATION (harmonic) DISTORTION, RF power +14 dBm:

  300 kHz −1 GHz: −20 dBc
  1 GHz −6 GHz: −7 dBc

- 1 dB MODULATION COMPRESSION LEVEL, modulated at 50 MHz:

  +17 dBm RF power

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