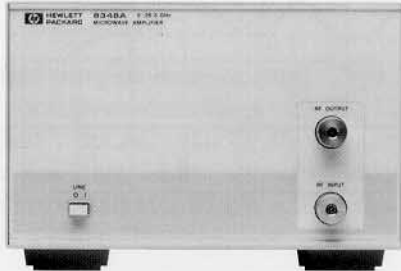


## HP 8348A Amplifier specifications

**Specifications** describe the instrument's warranted performance over the temperature range 20 to 30°C. **Supplemental characteristics**, denoted typical or nominal, are intended to provide information useful in applying the instrument, but are non-warranted parameters.



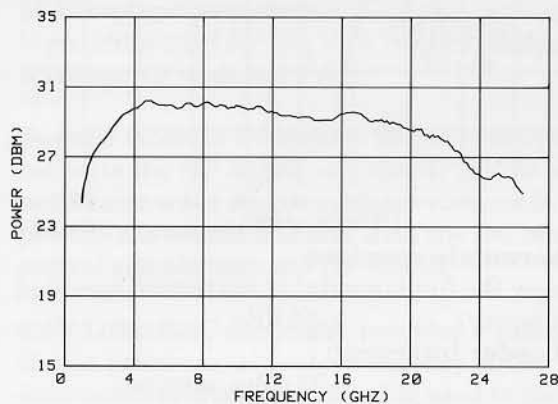
**Frequency range:** 2.0 to 26.5 GHz

### Maximum output power:

(at 0 dBm input)

1.0 to 2.0 GHz:  $\geq +20$  dBm (typical)  
 2.0 to 20.0 GHz:  $\geq +25$  dBm  
 20.0 to 26.5 GHz:  $\geq +23$  dBm

### Typical maximum unlevelled output power



### Power flatness:

(at 0 dBm input)  $\pm 4$  dB (typical)

### Minimum small signal gain:

(at -15 dBm input)

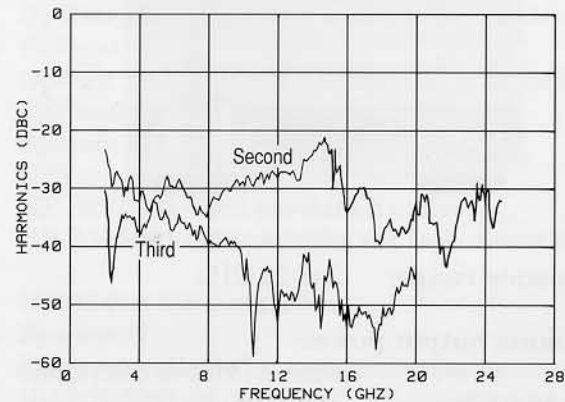
1.0 to 2.0 GHz:  $\geq 20$  dB (typical)  
 2.0 to 20.0 GHz:  $\geq 25$  dB  
 20.0 to 26.5 GHz:  $\geq 23$  dB

### Harmonics: (typical)

(at maximum specified output power)

1.0 to 2.0 GHz:  $< -20$  dBc  
 2.0 to 26.5 GHz:  $< -15$  dBc

### Typical second and third order harmonics



### Third order intercept:

2.0 to 20.0 GHz: +36 dBm, nominal  
 20.0 to 26.5 GHz: +31 dBm, nominal

### Maximum continuous input:

Microwave power: +22 dBm  
 DC Voltage:  $\pm 10$ V

### Input and output impedance:

50Ω, nominal

**Input SWR:**  $< 3:1$  (typical)

**Output SWR:** (typical)

1.0 to 2.0 GHz:  $< 6:1$

2.0 to 20 GHz:  $< 4.5:1$

20 to 26.5 GHz:  $< 2:1$

**Reverse isolation:**  $> 50$  dB (typical)

### Noise figure: (typical)

1.0 to 20 GHz:  $< 10$  dB

20 to 26.5 GHz:  $< 13$  dB

### Pulse transmission capability

**Rise/fall time:**  $< 5$  ns (typical)

**Delay time:**  $< 5$  ns (typical)

### General specifications

**Input and output connectors:** 3.5 mm male

**Power requirement:** 50 to 400 Hz, 100, 120,

200, or 240 Volts AC ( $\pm 10\%$ ); 85 VA maximum

**Weight:** Net 7 kg (15 lb); shipping 14 kg (31 lb).

**Dimensions:** 133 H x 214 W x 366 mm D (5.2 H x 8.4 W x 14.4 in D).