

# Single Band Plug-Ins

Refer also to Broadband Models 86222A/B (0.01-2.4 GHz), 86240A/B/C (2-8.4 GHz), 86251A (7.5-18.6 GHz), and 86290B/C (2-18.6 GHz)

Specifications with plug-in installed in HP 8620C	HP 86220A	HP 86235A	HP 86241A	HP 86242D	HP 86245A	HP 86250D	HP 86260B	HP 86260A	HP 86260C
<b>Frequency range<sup>1</sup> (GHz):</b>	0.01-1.3	1.7-4.3	3.2-6.5	5.9-9.0	5.9-12.4	8.0-12.4	10.0-15.5	12.4-18.0	17.0-22.0
<b>Frequency accuracy</b> CW mode (MHz):	±10	±20	±30	±35	±40	±40	±50	±50	±50
Remote programming typically (MHz):	±6.0	±2.5	±10.5	±5.0	±20	±20	±25	±25	±25
All sweep modes (sweep time >100 ms) (MHz):	±15	±30	±33	±40	±50	±50	±70	±70	±70
<b>Stability:</b> With Temperature:	±600 kHz/°C	±500 kHz/°C	±650 kHz/°C	±750 kHz/°C	±1.2 MHz/°C	±1.2 MHz/°C	±5.4 MHz/°C	±5.4 MHz/°C	±5.4 MHz/°C
With 10% Line Voltage Change:	±20 kHz	±40 kHz	±30 kHz	±40 kHz	±40 kHz	±40 kHz	±180 kHz	±180 kHz	±180 kHz
With 10 dB Power Level Change:	±20 kHz	±1 MHz	±1 MHz	±1.5 MHz	±1.5 MHz	±1.5 MHz	±6 MHz	±6 MHz	±6 MHz
With 3:1 Load SWR Change, all Phases:		±250 kHz		±250 kHz	±250 kHz	±250 kHz			
With Time (after warm-up): Typ/10 min.	± 200 kHz	± 200 kHz	± 200 kHz	± 600 kHz	± 600 kHz	± 600 kHz		± 450 kHz	
<b>Residual FM</b> (20 Hz -15 kHz BW, FM switch in NORM) CW mode (kHz peak):	<5	<7	<7	<15	<15	<15	<25	<25	<25
<b>Maximum leveled power<sup>1</sup> (mW):</b>	10	>40	>6.3(3.2-6 GHz) >5(6-6.5 GHz)	>10	>50	>10	>10	>10	>10
<b>Power variation</b> Internally leveled (dB):	<±0.5	<±2	<±0.8	<±0.5	<±0.6	<±0.5	<±0.7	<±0.7	<±0.7
Externally leveled (dB) (excluding coupler & detector variation):	N/A	<±0.1	<±0.1	<±0.1	<±0.1	<±0.1	<±0.1	<±0.1	<±0.1
<b>Spurious signals:</b> (dB below fundamental, at specified max power) Harmonics:	<-25(10-750 MHz) <-30(750-1300 MHz)	<-20	<-16(3.2-3.8 GHz) <-20(3.8-6.5 GHz)	<-30	<-17(5.9-7 GHz) <-30(7-12.4 GHz)	<-30	<-25	<-25	<-25
Nonharmonics:	<-40	<-60	<-60	<-60	<-60	<-60	<-50	<-50	<-50
<b>Source SWR:</b> (50 Ω nom, Internally leveled)	<1.3	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
<b>External FM:</b> Max deviations (MHz) for modulation frequencies:									
DC-100 Hz:	±15	±75	±25	±150	±150	±150	±150 (DC-200 kHz)	±75 (DC-200 kHz)	±75 (DC-200 kHz)
DC-1 MHz:	±0.5	±5	±2	±7	±7	±7	±5(200 Hz-200 kHz) -20/-6	±5(200 Hz-200 kHz) -20/-6	±5(200 Hz-200 kHz) -20/-6
Sensitivity (nom, MHz/V):	+3.5	-20/-6	-6	-20/-6	-20/-6	-20/-6	-20/-6	-20/-6	-20/-6
<b>AM:</b> Internal 1 kHz Square wave On/Off ratio & EXT AM sensitivity To -10 V (dB):	>35	>40	>25	>40	>40	>40	>25	>25	>25
EXT AM Response compatible with 8756A/8757A Mod drive signal:	No	Yes	No	Yes	Yes	Yes	No	No	No
<b>Plug-in:</b> Opt 002 (70 dB Atten.)			N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>1</sup> Special frequency band and high power outputs available on request.