Operational Characteristics (rev 10.11.99)

HP 85309A Options H30, H31, H32

GENERAL DESCRIPTION

The HP 85309A H30, H31, and H32 options provide higher RF power output than the standard HP 85309A, 85309A Opt 001, and 85309A option 002, respectively.

ABSOLUTE MAXIMUM RATING

Storage Temperature - 40 to +85 degree C Operating Temperature 0 to +50 degree C

Nominal Channel Performance

Frequency Range: 0.3 - 18 GHz

Input Power range, L.O. Input: (recommended)

0.3 - 3.0 GHz 6 - 10 dBm 2.0 - 18 GHz 0 - 6 dBm

Power Output, L.O. Ports:

 Freq. Range
 Minimum
 Typical Minimum

 0.3 - 0.5 GHz:
 21.5 dBm
 24.5 dBm

 0.5 - 3.0 GHz:
 22.75 dBm
 25 dBm

 3.0 - 6.2 GHz:
 24.75 dBm
 27 dBm

 6.2 - 18 Ghz:
 22.5 dBm
 25 dBm

I.F. Channel Small Signal Gain:

Minimum Maximum 20 MHz 21 dB 25 dB

Output Power Channel Tracking: (typ.)

0.3 - 3.0 GHz $\pm 2 \text{ dB}$ 2.0 - 18 GHz $\pm 2 \text{ dB}$

Port Return Loss, 0.3 - 18 GHz (typ.)

L.O. Input 9 dB L.O. Output 7 dB

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HP 85301B System Cable Length Configurations (For HP 85309A, H3x)

The attached figures regard maximum system Cable Lengths. They should be used in place of the information noted in the recently published 'HP 85301B/C Antenna Measurement Systems, Configuration Guide.

HOW TO USE THE CONFIGURATION FIGURE THAT FOLLOW:

- 1. Determine the mixer type you plan want to use.
- 2. Determine the frequency band of operation for that mixer type.
- 3. On the Left side, under the frequency band is the Max. Cable lengths:
 - Length given are for the HP 85381A RF cable type and the (length) is for the Low Loss cable type.

NOTE: Currently the Low Loss RF cables are MicroCoax UFB311A cable type.

