

Q-bit Corporation  
 Amplifier Specifications  
 07/14/90

Model Number QBH-101, Revision B1  
 Package TO-8 STD

PERFORMANCE SPECIFICATIONS

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PARAMETER	+25 Degrees C	-55 to +100 Degrees C	Units
Bandwidth	5.0 to 500.0		MHz
Gain	= 13.0 +/- 0.5		dB
Gain vs. Temperature	<=	+0.6 / -1.1	dB
Gain vs. Vdc	<=	0.1	dB/Volt
Gain Flatness	<= 0.6	1.0	dB p-p
Reverse Isolation	>= 25.0	24.0	dB
VSWR - Input	<= 1.5:1	1.5:1	
Output	<= 1.5:1	1.8:1	
1dB Compression	>= 7.0	6.0	dBm
Output Intercept - 3rd	>= 20.0	18.0	dBm
2nd	>= 28.0	25.0	dBm
Noise Figure	<= 2.4	3.0	dB
DC Voltage +/- 1%	= 15.0		Vdc
DC Current	<= 18.0	19.0	mA

ABSOLUTE MAXIMUM RATINGS

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Power Supply Voltage			
Sustaining	20.0		Vdc
Pulse	22.0		Vdc
Maximum Input Drive	1.0		VRMS
Temperature			
Operating	-55 to +125 Degrees C		
Storage	-65 to +150 Degrees C		
Thermal Rise, Junction-to-Case	+12.0	Degrees C	

Parameter specifications are applicable the revision level indicated.  
 For latest revision, please contact Q-bit Corporation.  
 Maximum operating temperature is defined as that temperature which, if