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REMEC Q-BIT

QB-188

0.5 - 100 MHz Modular Amplifier



- *500 KHz - 100 MHz bandwidth*
- *SMA, BNC, or TNC connectors*
- *Low noise figure*
- *High output power*

Performance

Parameters	Guaranteed	Guaranteed	Units
Temperature	25°C	-55 to +71°C	°C
Frequency range	0.5 - 100		MHz
Small signal gain	15.0± 1.0	+0.3/--0.3	dB
Gain flatness	0.5	0.5	dB p-p Min
Reverse isolation	28	28	dB Min
Input VSWR	1.5:1	1.5:1	
Output VSWR	1.5:1	1.5:1	
1 dB compression	+21	+21	dBm Min
3rd order OIP	+37	+37	dBm Min
2nd order OIP	+47	+47	dBm Min
Noise figure	3.0	3.6	dB Max
DC supply voltage*	15		Vdc
DC supply current	100	100	mA Max
Gain vs. Vdc			dB/Volt Max
Package/Housing	184 (E52-184)		
*all specification ratings are based on DC supply voltage ± 1%			

Absolute Maximum Ratings

Sustaining supply voltage	**+16.0**	**Vdc**
Pulsed supply voltage (transient)	**+17.0**	**Vdc**
Operating temperature	**-55 to +85**	**°C**
Storage temperature	**-65 to +125**	**°C**
Input drive	**1.0**	**Vrms**
Thermal rise, junction-to-case		**°C**

Typical S-Parameters

Freq	**S11**		**S21**		**S12**		**S22**	
MHz	**dB**	**Ang**	**dB**	**Ang**	**dB**	**Ang**	**dB**	**Ang**
0.5	**-16.4**	**-27.8**	**14.8**	**-175.0**	**-37.3**	**34.5**	**-20.7**	**8.8**
0.6	**-16.9**	**-24.5**	**14.8**	**-176.0**	**-37.4**	**28.1**	**-20.7**	**7.1**
0.7	**-17.2**	**-22.3**	**14.8**	**-176.7**	**-37.7**	**24.3**	**-20.7**	**5.9**
0.8	**-17.5**	**-19.7**	**14.8**	**-177.4**	**-37.6**	**22.1**	**-20.7**	**4.7**
0.9	**-17.6**	**-17.9**	**14.9**	**-177.9**	**-37.7**	**21.6**	**-20.7**	**3.8**
1.0	**-17.8**	**-16.5**	**14.8**	**-178.3**	**-37.7**	**17.3**	**-20.6**	**3.0**
2.0	**-18.1**	**-10.4**	**14.8**	**179.1**	**-37.9**	**11.6**	**-20.8**	**-1.6**
3.0	**-18.1**	**-9.0**	**14.8**	**177.7**	**-37.8**	**9.5**	**-20.8**	**-4.0**
4.0	**-18.1**	**-9.1**	**14.8**	**176.4**	**-37.7**	**8.5**	**-20.9**	**-5.6**
5.0	**-18.1**	**-9.6**	**14.8**	**175.3**	**-37.6**	**8.6**	**-20.9**	**-7.6**
6.0	**-18.2**	**-10.7**	**14.8**	**174.2**	**-37.5**	**10.5**	**-20.9**	**-9.4**
7.0	**-18.1**	**-11.7**	**14.8**	**173.1**	**-37.4**	**9.6**	**-20.9**	**-11.0**
8.0	**-18.2**	**-13.0**	**14.8**	**172.0**	**-37.4**	**12.1**	**-20.9**	**-12.6**
9.0	**-18.1**	**-14.1**	**14.8**	**170.9**	**-37.4**	**11.9**	**-20.9**	**-14.3**
10.0	**-18.1**	**-15.4**	**14.8**	**170.0**	**-37.2**	**12.0**	**-20.9**	**-16.0**
20.0	**-18.1**	**-29.2**	**14.8**	**159.5**	**-36.1**	**18.7**	**-20.8**	**-33.3**
30.0	**-18.1**	**-43.3**	**14.8**	**149.0**	**-34.5**	**20.8**	**-20.7**	**-51.4**
40.0	**-18.0**	**-58.0**	**14.8**	**138.6**	**-33.3**	**21.3**	**-20.5**	**-69.6**
50.0	**-18.0**	**-73.7**	**14.8**	**128.0**	**-31.9**	**18.9**	**-20.1**	**-89.2**
60.0	**-17.6**	**-91.8**	**14.8**	**117.3**	**-30.7**	**15.4**	**-19.4**	**-108.9**
70.0	**-17.3**	**-110.3**	**14.7**	**106.3**	**-29.6**	**9.8**	**-18.4**	**-128.0**
80.0	**-16.8**	**-128.4**	**14.7**	**95.1**	**-28.5**	**3.6**	**-17.1**	**-146.6**
90.0	**-16.1**	**-147.4**	**14.6**	**83.5**	**-27.6**	**-3.6**	**-15.7**	**-165.1**
100	**-15.3**	**-167.5**	**14.5**	**71.2**	**-26.9**	**-12.6**	**-14.3**	**176.3**

Typical Performance

Freq MHz	Noise Figure dB	Output P1dB dBm	Third OIP dBm	Second OIP dBm
0.5		+22	+41	+53
10.0	3.0			
25.0	2.8	+23	+41	+57
50.0	2.8	+23	+41	+56
100	2.9	+24	+41	

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