

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Q-bit

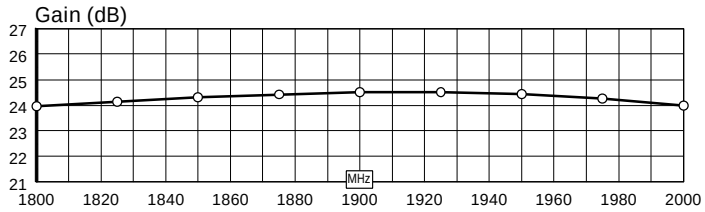
1800 - 2000 MHz Power Amplifier

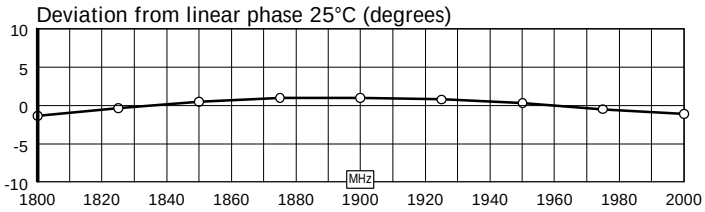
QBS-256

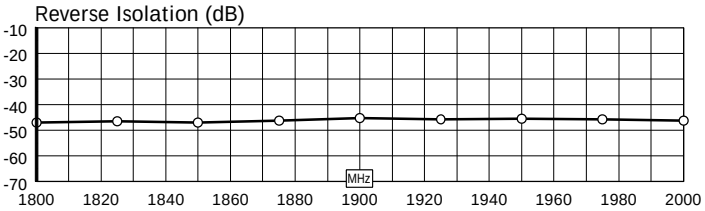
- *1800-2000 MHz frequency band*
- *OIP3 +48 dBm typical*
- *P1dB +34 dBm typical*
- *Unconditionally stable*

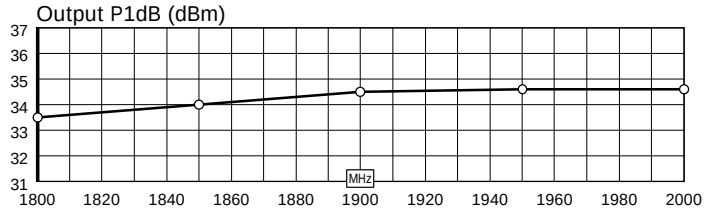
Parameters	Guaranteed 25°C	Guaranteed -20 to +70°C	Units
Frequency range	1800 - 2000		MHz
Small signal gain	24.0 ± 1.0		dB
Gain vs. temperature		+2.0/-2.0	dB Max
Gain flatness	1.5		dB Max p-p
Reverse isolation	35		dB Min
VSWR Input	1.5:1	1.5:1	Max
Output	1.5:1	1.5:1	Max
1 dB compression	+33	+32	dBm Min
Output intercept point			
3rd Order	+47	+45	dBm Min
2nd Order			dBm Min
Noise figure	7.0	8.0	dB Max
DC supply voltage*	15		Vdc
DC supply current	950		mA Max
Gain vs. Vdc			dB/Volt Max
Package/Housing	19500 (E52-19500)		

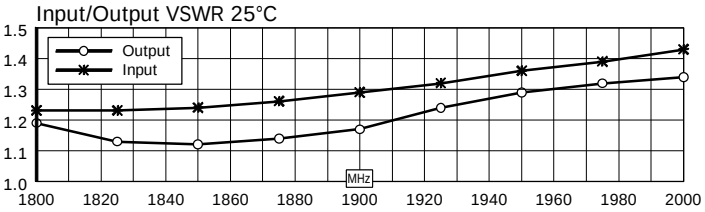
*all specification ratings are based on DC supply voltage ± 1%

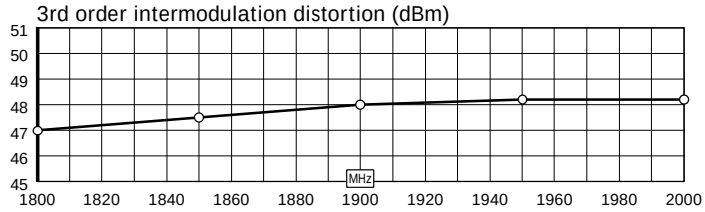












TYPICAL S-PARAMETER DATA

	S11		S21		S12		S22	
MHz	dB	Ang	dB	Ang	dB	Ang	dB	Ang
1800	-20.8	87.5	24.0	-68.2	-46.9	114.9	-23.1	25.4
1825	-20.4	73.4	24.1	-91.0	-46.6	94.5	-26.4	-77.5
1850	-19.8	57.0	24.3	-113.9	-47.0	72.7	-26.4	-120.6
1875	-19.0	38.3	24.4	-137.1	-46.3	61.4	-24.5	-138.3
1900	-18.1	18.6	24.5	-160.8	-45.4	42.1	-24.0	-153.9
1925	-17.2	-2.2	24.5	175.3	-45.6	13.4	-20.9	-167.2
1950	-16.4	-22.5	24.4	151.1	-45.5	-2.9	-18.9	179.3
1975	-15.7	-42.0	24.3	126.8	-45.9	-16.8	-18.0	171.1
2000	-15.0	-59.7	24.0	102.7	-46.4	-43.9	-17.3	162.0

ABSOLUTE MAXIMUM RATINGS

Power supply voltage
- Sustaining ..... +18.0 Vdc
- Pulse (transient) ..... +20.0 Vdc

Temperature
- Operating ..... -20 to +70°C
- Storage ..... -55 to +125°C

Maximum input drive ..... 2.8 Vrms

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