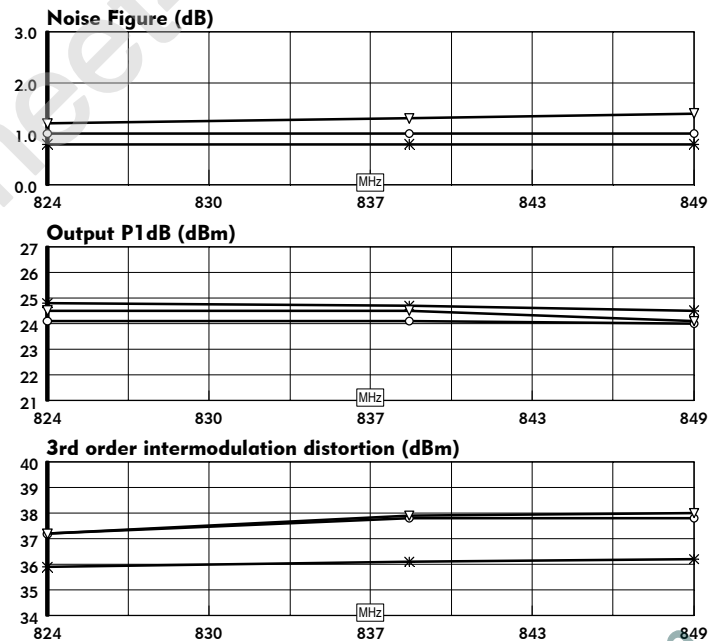
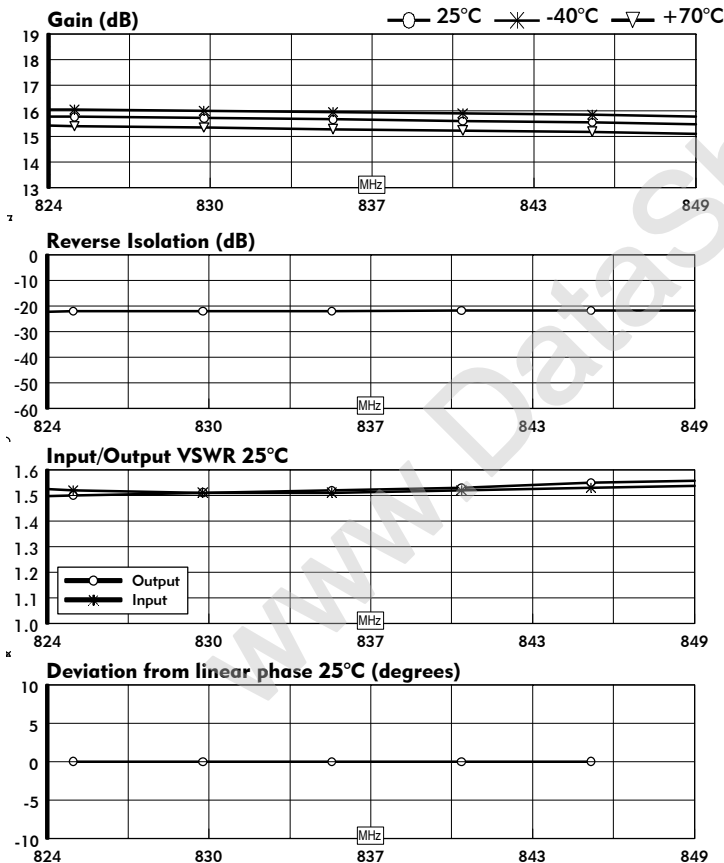


QBH-8710

- **824-849 MHz bandwidth**
- **High intercept point, +37 dBm typical IP3**
- **Low noise figure, 1.0 dB typical**
- **15 Vdc operation**

Parameters	Typical	Guaranteed	Units
	25°C	-40 to +70°C	
Frequency range	824 - 849		MHz
Small signal gain	16.0		dB
Gain flatness	0.3	0.6	dB p-p
Reverse isolation	19	18	dB
VSWR Input	1.6:1	2.0:1	
Output	1.6:1	2.0:1	
1 dB compression	+24	+23	dBm
Output intercept point			
3rd Order	+37	+34	dBm
2nd Order			dBm
Noise figure	1.0	1.6	dB
DC supply voltage*	15		Vdc
DC supply current	90	110	mA
Gain vs. Vdc			dB/Volt
Package/Housing			LCSM (E52-19422)

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



TYPICAL S-PARAMETER DATA

MHz	S11		S21		S12		S22	
	dB	Ang	dB	Ang	dB	Ang	dB	Ang
825	-13.8	44.0	15.8	-27.4	-22.0	-62.8	-14.0	-157.2
830	-13.8	37.5	15.7	-29.4	-22.0	-64.3	-13.9	-159.5
835	-13.8	30.6	15.7	-31.3	-21.9	-65.8	-13.7	-162.1
840	-13.8	24.0	15.6	-33.2	-21.8	-67.3	-13.5	-164.6
845	-13.7	17.4	15.5	-35.1	-21.8	-69.0	-13.4	-167.1

ABSOLUTE MAXIMUM RATINGS

Power supply voltage	
Sustaining	+15.0 Vdc
Pulse (transient)	+18.0 Vdc
Temperature	
Operating	-55 to +100°C
Storage	-65 to +150°C
Maximum input drive	3.0 Vrms