



QBH-5729

Compliance Matrix

Broadband Amplifier



Item #	Parameter	Unit	Specifications		Comments
			Typical 25°C	Guaranteed -55°C to +85°C	
A.1	Frequency Range	MHz	1000 – 6000		Comply
A.2	Small Signal Gain	dB	17.5	15.5 dB min.	Comply
A.3	Gain Flatness	dB	± 0.3	± 1.0	Comply
A.4	Input VSWR	—	1.6 :1	2.1 :1 max.	Comply
A.5	Output VSWR	—	1.6 :1	2.1 :1 max.	Comply
A.6	Reverse Isolation	dB	38	35 min.	Comply
A.7	Noise Figure	dB	4.8	6.0 max.	Comply
A.8	Pout @ 1dB Compression	dBm	+20	+18.5 min.	Comply
A.9	3 rd Order Output Intercept Point	dBm	+30	—	Comply
A.10	2 nd Order Output Intercept Point	dBm	+53	—	Comply
A.11	DC Voltage	Vdc	+15.0		Note 1
A.12	Operating DC Current	mA	135	145 max.	Comply

Notes:

- 1) All specification ratings are based on measurements in a 50 ohm system with a DC supply voltage tolerance of ±1%.
- 2) RF output terminated into 50 ohms (Load VSWR ≤ 2.0 :1).

B. Absolute Maximum Ratings

Item #	Parameter	Limit	Unit	Specification	Comments
B.1	DC Voltage @ 25°C	Max.	Vdc	+16.0	Comply
B.2	RF Input Power @ 25°C	Max.	dBm	+13.0	Note 2
B.3	Operating Temperature*	Min.	°C	- 55	Comply
		Max.	°C	+90	
B.4	Storage Temperature	Min.	°C	- 62	Comply
		Max.	°C	+125	

* Maximum Operating Temperature is defined as that temperature which, if exceeded for extended periods, could result in premature unit failure. This data is provided for user reliability information. This may or may not represent the maximum temperature for electrical parameter specifications.

C. General

Item #	Parameter	Specification	Comments
C.1	Package	SM3 (PN: 080-10116-0001)	Comply
C.2	Finish	Gold Plated Kovar	Comply