



瑞維電子有限公司
S-Power Electronics Ltd

BG303

(2.4GHz RF Module)

Specification

Ver:1.0

瑞維電子有限公司

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Operating Range

Parameters	Min.	Typ.	Max.	Unit
supply voltage	3.2	3.3	3.4	V
Temperature ambient	0		50	'C
Input frequency range	2400		2483	MHz
RX supply current , CW-mode (peak current)			40	mA
TX supply current, CW-mode (peak current)			180	mA
Supply current in standby mode			20	uA

Transmitter Part

Parameters	Min.	Typ.	Max.	Unit
TX data rate		500 250 25 2		Kbit/s
MAX. Output power (PTX)	14	16		dBm
Frequency deviation				
Data Rate>50Kbps		186K		KHz
Data Rate<=50Kbps		124K		KHz
Frequency drift			50	KHz
Spurious Emission				
2'nd spurious emission			-40	dBm
3'rd spurious emission			-50	dBm
Modulation		FSK GFSK		
Output Gain adjustable		15		dB



Receiver Part

Parameters	Min.	Typ.	Max.	Unit
Sensitivity				
BER $\leq 10^{-3}$ at 500kBit/s		-89	-86	dBm
BER $\leq 10^{-3}$ at 250kBit/s		-91		
BER $\leq 10^{-3}$ at 25kBit/s		-94		
BER $\leq 10^{-3}$ at 2kBit/s		-100		
IF frequency		500		KHz
		250		KHz
Maximum input power		-30		dBm
Spurious Emission				
30MHz~1GHz		-50		dBm
1GHz~12GHz		-40		

Dimension and Pad Define

