

FM33490 (RF BOARD) SPECIFICATIONS

1.Scope

This document is prescribed as concerns specifications of a wireless unit FM33490.

Principal Components : 88W8686 (RF/BB/MAC) (In Wireless Module)

: LBWA18HGCZ (Murata Wireless Module)

Interface : PCI

2. Appearances

No	Items	Spec.	Remarks
1	Dimension	4.5 x 4.0 x 5.0 (typ.) mm	
2	Mass	35 g (Typ.)	

3. Electrical Characteristics

No	Items	Spec.			Unit	Remarks
		Min	Typ	Max		
1	3.3V	3.135	3.3	3.465	V	DC

4. RF Characteristics

No	Items	Spec.
1	Standards	IEEE802.11g / IEEE802.11b
		ARIB STD-T66
2	Frequency Band	2412MHz - 2462MHz
3	Channel	1~11ch
4	Transmission Method	IEEE802.11g: OFDM
		IEEE802.11b: DS-SS
5	Data Rate	IEEE802.11g: 54/48/36/24/18/12/9/6Mbps
		IEEE802.11b: 11/5.5/2/1Mbps
6	Modulation Method	IEEE802.11g: BPSK, QPSK, 16QAM, 64QAM
		IEEE802.11b: DBPSK, DQPSK, CCK
7	Deviation of Frequency	IEEE802.11g: Under than or equivalent to $\pm 25 \times 10^{-6}$
		IEEE802.11b: Under than or equivalent to $\pm 25 \times 10^{-6}$
8	Occupied Bandwidth	IEEE802.11g: Under than or equivalent to 26MHz
		IEEE802.11b: Under than or equivalent to 26MHz
9	Spread Bandwidth	IEEE802.11g: —
		IEEE802.11b: 500kHz(min)
10	Spurious Leakage	Under 2387MHz : Under than or equivalent to 2.5 μ W/MHz
		2387MHz~2400MHz : Under than or equivalent to 25 μ W/MHz
		2483.5MHz~2496.5MHz : Under than or equivalent to 25 μ W/MHz
		2496.5MHz : Under than or equivalent to 2.5 μ W/MHz
11	Output Power	11g: 12dBm((typ) 15dB(max), 11b: 12dBm(typ), 15.5dBm(max)
12	Secondary Emission	Under than 1GHz : Under than or equivalent to 4nW
		Over than or equivalent to 1GHz : Under than or equivalent to 20nW
13	Receive Sensitivity	IEEE802.11g 54Mbps : Under than or equivalent to -65dBm (@P ER<10%)
		IEEE802.11b 11Mbps : Under than or equivalent to -76dBm (@P ER<8%)
14	Antenna Impedance	50 Ω