

RF Exposure Statement: 12606802 002

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Client: Mitsumi Electric Co Ltd
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Test item: Wireless LAN Module

Identification: DWM-W028

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE).

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	-/-	-/-	F/300	6
1500-100,000	-/-	-/-	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	-/-	-/-	F/1500	30
1500-100,000	-/-	-/-	1	30

Friis Formula

Friis transmission formula: $S = (P_{out} \cdot G) / (4 \cdot \pi \cdot d^2)$

Where

S = power density in mW/cm²

P_{out} = output power to antenna in mW (see table below)

G = gain of antenna in linear scale (0.644 linear scale, -1.91dBi)

Pi = 3.1416

d = distance between observation point and radiating structure in cm (=20cm)

Radio	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
802.11 b	2442	6.70	0.0008
802.11 g	2412	30.34	0.0039

The calculated maximum power density has been found to be compliant with the limit set at 1 mW/cm².

Please refer to test report 12606802 001 for more details.