FCC RF EXPOSURE REPORT

Rockford Corporation

DIGITAL MEDIA RECEIVER

Model Number: PMX-1

FCC ID: 2AA7S-PMX-1

Prepared for :Rockford Corporation 600 South Rockford Drive Tempe Arizona United States

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Maximum Permissible Exposure

1、 Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

Frequency	Electric Field	Magnetic	Power	Averaging	
Range (MHz)	Strength E)	Field Strength	Density (S)	Times E	
	(V/m)	(H) (A/m)	(mW/cm2)	2,	
				S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842/f	4.89/f	(900/f)*	6	
30-300	61.4	0.163	1.0	6	
300-1500			F/300	6	
1500-10000			5	6	

(a)、Limits for Occupational / Controlled Exposure

(b)、Limits for General Population / Uncontrolled Exposure

Frequency	Electric Field	Magnetic	Power	Averaging	
Range (MHz)	Strength E)	Field Strength	Density (S)	Times E	
	(V/m)	(H) (A/m)	(mW/cm2)	2,	
				S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-10000			1.o	30	

Note: f=frequency in MHz; *Plane-wave equivalent power density

2、MPE Calculation Method

E (V/m) = (30*P*G) 0.5/d Power Density: Pd (W/m2) = E2/377

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = (30*P*G) / (377*d2)

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



3、Calculated Result and Limit

					Antenna gain			Limited		
Mode	Frequency (MHz)	Peak output power (dBm)	Peak output power (mW)	Target power (dBm)	(dBi)	(Linear)	(mW	of Power Density (S)	Test Result	
							/cm2)	(mW /cm2)		
GFSK	2402	4.021	2.524	4 ± 1	0	1	0.00063	1	Complies	
	2441	4.096	2.568	4 ± 1	0	1	0.00063	1	Complies	
	2480	4.134	2.591	4 ± 1	0	1	0.00063	1	Complies	
8-DPSK	2402	3.091	2.038	3 ± 1	0	1	0.00050	1	Complies	
	2441	3.242	2.110	3±1	0	1	0.00050	1	Complies	
	2480	3.178	2.079	3±1	0	1	0.00050	1	Complies	

