

Garmin	Model: GMN-01410	Test Number:	170226		
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.				
	dBi = dB gain compared to an isotropic radiator.				
	S = power density in mW/cm <sup>2</sup>				
	Transmitter maximum Output power operating at 100% (Watts)	16.6725	Antenna Gain (dBi)	1	
	Output Power for 50% duty Cycle operation (Watts)	8.3362	dBi to dBd	2.2	
Tx Frequency (MHz)	127	Calculation power (Watts)	8.3362	Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	39.21	Antenna minus cable (dB)	1.00
	Calculated ERP (mw)	6367.515	EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	10494.699	Radiated (EIRP) dBm	40.210	
			ERP = EIRP - 2.17 dB		
			Radiated (ERP) dBm	38.040	
	Power density (S) EIRP ----- = mW/cm <sup>2</sup> 4 π r <sup>2</sup>				
	<b>Occupational Limit</b>				
	FCC radio frequency radiation exposure limits per 1.1310				
	Frequency (MHz)	Occupational Limit (mW/cm <sup>2</sup> )	Public Limit (mW/cm <sup>2</sup> )		
1	30-300	1	0.2		
10	300-1,500	1/300	1/1500		
0.2	1,500-10,000	5	1		
2					
	<b>Occupational Limit</b>				
	IC radio frequency radiation exposure limits per RSS-102				
	Frequency (MHz)	Occupational Limit (W/m <sup>2</sup> )	Public Limit (W/m <sup>2</sup> )		
0.6455 f <sup>0.5</sup>	100-6,000	0.6455 f <sup>0.5</sup>			
9.05420	6,000-15,000	50			
1.291	48-300		1.291		
1.29100	300-6,000		0.02619 f <sup>0.6814</sup>		
	6,000-15,000	50	10		
EIRP	S	S	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches
10494.699	0.02088	0.20879	200.00	2.00	78.74
10494.699	0.02313	0.23134	190.00	1.90	74.80
10494.699	0.02578	0.25776	180.00	1.80	70.87
10494.699	0.02890	0.28898	170.00	1.70	66.93
10494.699	0.03262	0.32623	160.00	1.60	62.99
10494.699	0.03712	0.37117	150.00	1.50	59.06
10494.699	0.08351	0.83514	100.00	1.00	39.37
10494.699	0.10310	1.03104	90.00	0.90	35.43
10494.699	0.12729	1.27289	81.00	0.81	31.89
10494.699	0.19767	1.97667	65.00	0.65	25.59
10494.699	0.23198	2.31984	60.00	0.60	23.62
10494.699	0.52196	5.21964	40.00	0.40	15.75
10494.699	0.68175	6.81748	35.00	0.35	13.78
10494.699	0.86903	8.69034	31.00	0.31	12.20
10494.699	0.99303	9.93034	29.00	0.29	11.42
10494.699	8.18686	81.86861	10.10	0.10	3.98
10494.699	33.40567	334.05666	5.00	0.05	1.97
	Frequency (MHz)	FCC Occupational Limit minimum Distance (meters)	Canada Occupational Limit minimum Distance (meters)	FCC Public Limit minimum distance (meters)	Canada Public Limit minimum distance (meters)
	30-300	0.29	0.31	0.65	0.81
	300-1,500	N/A	N/A	N/A	N/A
	1,500-10,000	N/A	N/A	N/A	N/A

Rogers Labs, Inc.  
4405 West 259<sup>th</sup> Terrace  
Louisburg, KS 66053  
Phone/Fax: (913) 837-3214  
Revision 1

Garmin International, Inc.  
Model: GMN-01410  
Test #: 170226 GPN: 011-03711-00  
Test to: FCC Parts 2, 87, RSS-141  
File: GMN01410 RFExp

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