MPE Calculation page

MPE Calculator	MPE uses EIRP for calculation. E	IRP is based on TX po	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.	:5		
	$dB_i = dB$ gain compared to an isotropic radiator. $S = power density in mW/cm^2$	tropic radiator.				
					Antenna Gain (dBi)	42
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	5745	Ma	0.550047		Antenna Gain (dBd)	39.83
Cable Loss (dB)	0.0	(qBm)	27.40		Antenna minus cable (dBi)	42.00
	Calculated ERP (mw) 5289321.920	5289321.920		EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw) 8717661.466	8717661.466		ERP = EIRP - 2.17 dB	Radiated (EIRP) dBm	69.404
48.9261	Occupational Limit W/m ² General Public Limit 9.71034 W/m ² W/m ²	Power density (S) EIRP = mW/cm'2 4 p r'2 r (cm) EIRP (mW)			Radiated (ERP) dBm	67.234
		OI	IC radio frequency radiation exposure limits per RSS-102	limits per RSS-102		
		Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
		100-6,000	0.6455 f ^{0.5}			
		6,000-15,000	50			
		300-6,000		0.02619f ^{0.6834}		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		OI	IC radio frequency radiation exposure limits per RSS-102	limits per RSS-102		
		Frequency (MHz)	Occupational Limit (W/m2)	Public Limit (W/m2)		
		5745	48.93	9.71		
FIRD	S (mM/m2)	(Cm/M) S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	5	meter	inches	Feet
5289321.920	0.42091	4.20911	1000.00	10.00	393.70	32.81
5289321.920	0.46638	4.66383	950.00	9.50	374.02	31.17
5289321.920	0.51964	5.19643	00.006	00.06	354.33	29.53
5289321.920	0.58258	5.82576	850.00	8.50	334.65	27.89
5289321.920	0.65767	6.57673	800.00	8.00	314.96	26.25
5289321.920	0.74829	7.48286	750.00	7.50	295.28	24.61
5289321.920	0.85900	8.59002	700.00	7.00	275.59	22.97
5289321.920	0.92381	9.23810	650 00	6.75	265.75	22.15
5289321.920	0.99624	9.96239	650.00	6.50	255.91	21.33
5289321.920	1.16920	11.69197	00.009	6.000	236.22	19.69
5289321.920	1.68364	16.83643	500.00	5.000	196.85	16.40
5289321.920	2.63069	26.30693	400.00	4.000	157.48	13.12
5289321.920	4.67679	46.76787	300.00	3.000	118.11	9.84
5289321.920	4.83667	48.36666	295.00	2.950	116.14	89.6
5289321.920	4.90292	49.02921	293.00	2.930	115.35	19.6
5289321.920	5.00489	50.04885	290.00	2.900	114.17	9.51

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 SAF Tehnika AS Models: S06RPR18L and S06RPR18H Test #: 150617

Test to: 47CFR 15.249(b) and RSS-210 (A12)

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S/N's: 389740100382, 389730100832 FCC ID#: W9Z-58F2D IC: 8855A-58F2D

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