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^2		opic radiator.			
	s = power de	nsity in in w/cm ²		Δ.	ntenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.:
Tx Frequency (MHz)	5785	Maximum (Watts)	0.623633		tenna Gain (dBd)	15.8
. , ,		` '			` ` ′	
Cable Loss (dB)	0.0	(dBm)	27.95	Antenna n	ninus cable (dBi)	18.0
Calcula	ated ERP (mw)	23874.213		EIRP = Po(dBM) + Gain	(dB)	
	ted EIRP (mw)				iated (EIRP) dBm	45.94
				ERP = EIRP - 2.17 dB		
Occupa	ational Limit	Power density (S)	Rad	liated (ERP) dBm	43.77
49.09621	W/m ²	EIRP = mW/cr	n^2			
		4 p r^2	2			
Genera	l Public Limit		W)			
9.75649	W/m ²					
		IC radio fre	quency radiation exposure limi	ts per RSS-102	1	
		Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
		100-6,000	0.6455f ^{0.5}			
		6,000-15,000	50			
		300-6,000		0.02619f ^{0.6834}		
		6,000-15,000		10		
		IC radio fre	quency radiation exposure limi	ts per RSS-102		
		Frequency (MHz)	Occupational Limit (W/m2)	Public Limit (W/m2)		
		5785	49.10	9.76		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²			inches	Feet
39348.580	0.01253	0.12525	cm 500.00	meter 5.00	196.85	16.40
39348.580	0.01253	0.12525	400.00	4.00	157.48	13.12
39348.580	0.03479	0.34792	300.00	3.00	118.11	9.84
39348.580	0.07828	0.78282	200.00	2.00	78.74	6.56
39348.580	0.26846	2.68455	108.00	1.08	42.52	3.54
39348.580	0.31313	3.13126	100.00	1.00	39.37	3.28
39348.580	0.38658	3.86575	90.00	0.90	35.43	2.95
39348.580	0.48926	4.89259	80.00	0.80	31.50	2.62
39348.580	0.63903	6.39033	70.00	0.70	27.56	2.30
39348.580	0.86979	8.69795	60.00	0.60	23.62	1.97
39348.580	1.25250	12.52504	50.00	0.500	19.69	1.64
39348.580	1.86274	18.62737	41.00	0.410	16.14	1.35
39348.580	1.95704	19.57038	40.00	0.400	15.75	1.31
39348.580	2.55613	25.56131	35.00	0.350	13.78	1.15
39348.580 39348.580	3.47918 4.29528	34.79178 42.95282	30.00 27.00	0.300 0.270	11.81 10.63	0.98
39348.580	7.82815	78.28151	20.00	0.270	7.87	0.89
37340.300	7.02813	70.20131	20.00	0.200	7.87	0.00
			Occupational Limit minimum	Occupational Limit	Public Limit	Public Limit
			Distance	minimum Distance	minimum	minimum
			(meters)	(cm / inches)	distance	distance (cm
					(meters)	inches)
		Frequency (MHz)				

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA

Model: RBDynaDishG-5HacD

Test #: 150217 SN: 539404FFF3BA/439

Test to: CFR47 (15.247) File: DynaDish5 RFExp FCC ID#: TV7DYNADISHGAC IC: 7442A-DYNADISHGAC

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