MPE Calculator	Digital Ally		Test 080814		
		P for calculation			
	EIRP is based	on TX power added	to the antenna gain in dBi		
	dBi = dB gain	compared to an isotr	ropic radiator	Antenna Gain (dBi)	6
	S = power der	nsity in mW/cm^2		dBd + 2.17 = dBi	
		Output Power		dBi to dBd	2.17
x Frequency (MHz)	915	(Watts)	1.0000	Antenna Gain (dBd)	3.83
• • • •		(dBm)	30.00	, ,	
Cable Loss (dB)	0.0			Antenna minus cable (dBi)	6.00
Calculated ERP (mw)		2415.461	ERP = EIRP - 2.17 dB	Radiated (ERP) dBm	33.830
Calculated EIRP (mw)		3981.072	EIRP = Po(dBM) + Gain(dB)		
				Radiated (EIRP) dBm	36.000
Occu	pational Limit				
3.05000	mW/cm ²	Power densi EIRP	ity (S)		
Genera	al Public Limit	$4 p r^2$	W/cm^2		
0.61000	mW/cm ²	r (cm) EIR	P (mW)		
		FCC	radio frequency radiation expos	sure limits per 1.1310	
		Frequency (MHz)	Occupational Limit	Public Limit	
		300-1,500	f/300	f/1500	
		1,500-10,000	5	1	
		FCC	radio frequency radiation expos	sure limits per 1.1310	
			Occupational Limit @ Tx	Public Limit @ Tx Freq	
		Frequency (MHz)	Freq (mW/cm^2)	(mW/cm^2)	
		300-1,500	3.05	0.61	
		1,500-10,000	5	1	
		EIRP	Distance	Distance	S
					mW/cm ²
		milliwatts	cm	inches	
		3981.072	200.00	78.74	0.008
		3981.072	150.00	59.06	0.014
		3981.072	100.00	39.37	0.032
		3981.072	90.00	35.43	0.039
		3981.072	80.00	31.50	0.050
		3981.072	70.00	27.56	0.065
		3981.072	60.00	23.62	0.088
		3981.072	58.00	22.83	0.094
		3981.072	50.00	19.69	0.127
		3981.072	40.00	15.75	0.198
		3981.072	30.00	11.81	0.352
		3981.072	25.00	9.84	0.507
		3981.072	26.00	10.24	0.469
		3981.072	23.00	9.06	0.599
		3981.072	20.00	7.87	0.792
		3981.072	10.20	4.02	3.045
		3981.072	8.10	3.19	4.829
			Occupational Limit minimum	General Public Limit minimum	
		Frequency (MHz)	Occupational Limit minimum Distance cm (inches)	General Public Limit minimum Distance cm / (inches)	
		Frequency (MHz) 300-1,500	Occupational Limit minimum Distance cm (inches) 10.2 / (4.02")	General Public Limit minimum Distance cm / (inches) 23 / (9.06")	

Rogers Labs, Inc. 4405 West 259th Terrace Louisburg, KS 66053

Revision 1

Digital Ally, Inc.

Model: DWM1000 ICT (DWMICT1) Test #:080930ICT SN: 0492-0000 $Phone/Fax: (913)\ 837-3214 \quad Test\ to:\ FCC\ Parts\ 2\ and\ 15.247,\ RSS-210$

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