

MPE Calculation page

MPE Calculation page		Model: TT23	Test Number: 241125		
MPE Calculator	RF Exposure 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/cm²				
		Transmitter Output power (dBm)	53.94		
		Transmitter Output power (mW)	247,742.21		
Output Power for % duty Cycle operation (Watts)	1	247.7422		Antenna Gain (dBi)	2.2
	Output Power for 1% duty Cycle operation (Watts)	2.48		Antenna Gain (Numeric)	1.66
Tx Frequency (MHz)	1090	Calculation power (Watts)	2.48	dBd + 2.17 = dBi	dBi to dBd 2.2
Cable Loss (dB)	0.0	Adjusted Power (dBm)	33.94	Antenna Gain (dBd)	0.03
				Antenna minus cable (dBi)	2.20
		Calculated ERP (mw) 2494.595		EIRP = Po(dBm) + Gain (dB)	
		Calculated EIRP (mw) 4111.497		Radiated (EIRP) dBm	36.140
				ERP = EIRP - 2.17 dB	
				Radiated (ERP) dBm	33.970
		<div><div>EIRP</div><div>Power density (S) mW/cm² = -----</div><div>4 π r²</div></div>			
		<div>r (cm) EIRP (mW)</div>			

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 Revision 1

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 Test: 241125
 Test to: 47CFR Parts 2 and 87
 File VZI01905 RFExp

Trig Avionics Ltd.
 Models: TT23 & TT23G
 S/N: 6
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