13.2 Panel antenna module.

The following MPE calculations are based on the panel antenna, with a measured ERP of $124.1 dB\mu V/m$, at 3 meters and conducted RF power of +19.6 dBm as presented to the antenna. The calculated gain of this antenna, based on the ERP measurements is 9.3 dB.

		Predictio	n of MP	E limit at	a given	<u>distance</u>					
Eq	uation	from pag	om page 18 of OET Bulletin 65, Edition 97-01								
		$S = \frac{PG}{4\pi R^2}$									
		4π	TR"								
wh	ere:	S = powe	r density								
		P = powe	r input to	the anter	nna						
	G = power gain of the antenna in the direction						of interest relative	to an iso	tropic rad	diator	
		R = dista	nce to the	center o	f radiatio	tenna		·			
M	Maximum peak output power at antenna input terminal:						19.60	(dBm)			
	Maximum peak output power at antenna input terminal:						91.201				
		Antenna gain(typical):					(dBi)				
				Maxii	mum ante	enna gain:	8.511	(numeric)		
		Prediction distance:				20	(cm)				
						requency:	900	(MHz)			
MPE lii	mit for	uncontrol	led expos	sure at pr	0.6	(mW/cm/	^2)				
		Р	Power density at prediction frequency:				0.154429	(mW/cm	\ 2)		
			Maxim	num allow	able ante	enna gain:	15.2	(dBi)			
						_					
		Margin	of Compl	iance at	20	cm =	5.9	dB			

Prepared For:Ingersoll Rand	EUT:Module	LS Research, LLC
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