	HVIN:	E6V2			Test Number:	240416			
MPE Calculator			ased on	TX power added to the antenna g		27U71U			
	dBi = dB gain compared to a	an isotropic radiator.		•					
	S = power density in mW/cr								
	Transmitter Output power (mW			1977.0					
Output Dawer for 9/	Transmitter Output power (W		er (W) 100	1.98 1.98		Antenna Gain (dBi)	14		
Output Power for % duty Cycle operation (Watts) 10 Output Power for 100% duty Cycle operation (Watt				1.98		nna Gain (Numeric)	25.12		
	•					`			
Tx Frequency (MHz)	915	Calculation power (Watts)	1.98	dBd + 2.17 = dBi	dBi to dBd	2.17		
						Antenna Gain (dBd)	11.83		
Cable Loss (dB)	0.0	Adjusted Power	(dBm)	32.96	Antenr	na minus cable (dBi)	14.00		
					Antenna Gain (Numeric)		25.12		
	Calculated ERP (mw) 30130.060					o(dBm) + Gain (dB)	46.060		
	Calculated EIRP (mw) 49659.232				R	adiated (EIRP) dBm ERP = EIRP - 2.17	46.960		
		EIRP			T.	Radiated (ERP) dBm	44.790		
	Power density (S) mW/				ı ı	tadiated (ERT) dBill	44.770		
		4 p r^2							
	r (cm) EIRP (mW)								
	r (em) End (mw)								
	Occupational Limit			equency radiation exposure limits	1				
3.05		Frequency (MHz	:)	Occupational Limit (mW/cm ²)	Public Limit (mW/cm ²)				
30.5	W/m^2	30-300		1	0.2				
	General Public Limit	300-1,500		f/300	f/1500				
0.61	mW/cm ²	1,500-10,000]	5	1				
6.1	W/m ²								
	Occupational Limit								
$0.6455f^{0.1}$		IC rad	lio frequ	uency radiation exposure limits pe	r RSS-102				
19.5	W/m ²	Frequency (MHz	:)	Occupational Limit (W/m ²)	Public Limit (W/m ²)				
	General Public Limit	100-6,000		$0.6455f^{0.5}$					
$0.02619f^{0.6834}$	W/m^2	6,000-15,000		50					
2.77	_	48-300			1.291				
		300-6,000			$0.02619f^{0.6834}$				
		6,000-15,000		50	10				
						General Public	Occupational		
f = Transmit Frequency (MHz)					f (MHz) =	915	915	MHz	
P _T = Power Input to Antenna (mW)					$P_{T}(mW) =$	1,976.9696	1,976.9696	mW	
Duty cycle (percentage of operation)					% =	100	100	%	
P _A = Adjusted Power due to Duty cy	cle or Cable Loss (mW)				$P_{A}(mW) =$	1,976.97	1,976.97	mW	
G _N = Numeric Gain of the Antenna					GN (numeric) =	25.12	25.12	numeric	
S_{20} = Power Density of device at 20cm (mW/m ²)				$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (mW/m^2) =$	9.88	9.88	mW/m^2	
S_{20} = Power Density of device at 20cm (W/m ²)				$S_{20} = (P_A G_N)/(4\pi R_{20})^2$	$S_{20} (W/m^2) =$	98.79	98.79	W/m^2	
$S_L = Power Density Limit (W/m^2) FCC$				20 (11 10 (20)	$S_L(W/m^2)=$	6.100	30.500	W/m^2	
S_L = Power Density Limit (W/m ²) Canada					$S_{I}(W/m^2)=$	2.767	19.526		
			$R_C = \sqrt{(P_A G_N / 4\pi s_t)}$	2 ()	80.5	36.0			
R _C = Minimum distance to the Radiating Element for Compliance (cm) FCC					R_{C} (cm) =				
R _C = Minimum distance to the Radiating Element for Compliance (cm) Canada			$R_C = \sqrt{(P_A G_N / 4\pi s_i)}$	$R_{\rm C}$ (cm) =		45.0			
S_C = Power Density of the device at the Compliance Distance R_C (W/m ²) FCC			$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$			W/m ²		
S_C = Power Density of the device at t	the Compliance Distance R _C (W/m ²)	Canada		$S_C = (P_A G_N)/(4\pi R_C)^2$	$S_C(W/m^2) =$			W/m ²	
$R_{20} = 20cm$					R20=	20	20	cm	
	F O 1: :4 2 :	C 1B 1:	.,	. M. 1		440 -			
				ser Manual must indicate a minim		119.5			
	Or in Meters to	or compliance with Car	пада С	eneral Population Limits, a minim	ium separation distance of	1.20	Meters		
Summary: Standalone MPE C	alculations and Summary					Public Limit		Public	
	Tx Duty Cycle (%)	Tx Frequency (MH	(z)	Power Total (mW)	Antenna Gain (numeric)	S _L (W/m ²)	S ₂₀ (W/m ²)	R _C (cm)	S _C (W/m ²
FCC	100	915	,	1,977	25.12	6.100	98.79	80.5	6.10
Canada	100	915		1,977	25.12	2.767	98.79	119.5	2.77
		7.5		-70 / /		07			
				Limit	Overall Minimum (cm)	Overall Minimum (i	nches)		
		Public		Occupational					
	FCC (cm)	80.5		36.0					
	FCC (inches)	32.0		15.0					
	Canada (cm)	119.5		45.0					
	Canada (inches)	48.0		18.0					
0 1120	T D. 11.			0 411					
Overall Minimu				Overall Minumu Limit					
120	cm			45	cm				
	3 inches			10	inches				

Rogers Labs, a division of The Compatibility Center LLC

7915 Nieman Road HVIN: E6V2 PMN: E5, E6

SN: 3431565

Lenexa, KS 66214 Test: 240416 FCC ID: FIHE6PT90V2 IC: 1584A-E6RSS137V2 Phone: (913) 660-0666 Test to: 47CFR Parts 2, 90 and RSS-137 Date: June 14, 2024

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