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Radio Frequency “RF” Power Density to Volts Per Meter Unit Conversion Chart

milliVolts Per Meter	Volts Per Meter	Watts/Sq Meter	milliWatts/sq Meter	microWatts/Sq Meter	Watts/Sq Centimeter	milliWatts/Sq Centimeter	microWatts/Sq Centimeter
0.001,94 mV/m	0.000,001,94 V/m	0.000,000,000,000,01 W/m ²	0.000,000,000,01 mW/m ²	0.000,000,01 μW/m ²	0.000,000,000,000,001 W/cm ²	0.000,000,000,000,001 mW/cm ²	0.000,000,000,001 μW/cm ²
0.006,14 mV/m	0.000,006,14 V/m	0.000,000,000,000,1 W/m ²	0.000,000,000,1 mW/m ²	0.000,000,1 μW/m ²	0.000,000,000,000,01 W/cm ²	0.000,000,000,001 mW/cm ²	0.000,000,000,01 μW/cm ²
0.019,4 mV/m	0.000,019,4 V/m	0.000,000,000,001 W/m ²	0.000,000,001 mW/m ²	0.000,001 μW/m ²	0.000,000,000,000,01 W/cm ²	0.000,000,000,001 mW/cm ²	0.000,000,000,1 μW/cm ²
0.0614 mV/m	0.000,061,4 V/m	0.000,000,000,01 W/m ²	0.000,000,01 mW/m ²	0.000,01 μW/m ²	0.000,000,000,001 W/cm ²	0.000,000,000,001 mW/cm ²	0.000,000,001 μW/cm ²
0.194 mV/m	0.000,194 V/m	0.000,000,000,1 W/m ²	0.000,000,1 mW/m ²	0.000,1 μW/m ²	0.000,000,000,001 W/cm ²	0.000,000,000,01 mW/cm ²	0.000,000,01 μW/cm ²
0.614 mV/m	0.000,614 V/m	0.000,000,001 W/m ²	0.000,001 mW/m ²	0.001 μW/m ²	0.000,000,000,001 W/cm ²	0.000,000,000,1 mW/cm ²	0.000,000,1 μW/cm ²
1.94 mV/m	0.001,94 V/m	0.000,000,01 W/m ²	0.000,01 mW/m ²	0.01 μW/m ²	0.000,000,000,001 W/cm ²	0.000,000,001 mW/cm ²	0.000,001 μW/cm ²
6.14 mV/m	0.006,14 V/m	0.000,000,1 W/m ²	0.000,1 mW/m ²	0.1 μW/m ²	0.000,000,000,01 W/cm ²	0.000,000,01 mW/cm ²	0.000,01 μW/cm ²
19.4 mV/m	0.019,4 V/m	0.000,001 W/m ²	0.001 mW/m ²	1 μW/m ²	0.000,000,000,1 W/cm ²	0.000,000,1 mW/cm ²	0.000,1 μW/cm ²
61.4 mV/m	0.061,4 V/m	0.000,01 W/m ²	0.01 mW/m ²	10 μW/m ²	0.000,000,001 W/cm ²	0.000,001 mW/cm ²	0.001 μW/cm ²
194 mV/m	0.194 V/m	0.000,1 W/m ²	0.1 mW/m ²	100 μW/m ²	0.000,000,01 W/cm ²	0.000,01 mW/cm ²	0.01 μW/cm ²
614 mV/m	0.614 V/m	0.001 W/m ²	1 mW/m ²	1,000 μW/m ²	0.000,000,1 W/cm ²	0.000,1 mW/cm ²	0.1 μW/cm ²
1,942 mV/m	1.94 V/m	0.01 W/m ²	10 mW/m ²	10,000 μW/m ²	0.000,001 W/cm ²	0.001 mW/cm ²	1 μW/cm ²
6,140 mV/m	6.14 V/m	0.1 W/m ²	100 mW/m ²	100,000 μW/m ²	0.000,01 W/cm ²	0.01 mW/cm ²	10 μW/cm ²
19,416 mV/m	19.4 V/m	1 W/m ²	1,000 mW/m ²	1,000,000 μW/m ²	0.000,1 W/cm ²	0.1 mW/cm ²	100 μW/cm ²
61,400 mV/m	61.4 V/m	10 W/m ²	10,000 mW/m ²	10,000,000 μW/m ²	0.001 W/cm ²	1 mW/cm ²	1,000 μW/cm ²
194,164 mV/m	194 V/m	100 W/m ²	100,000 mW/m ²	100,000,000 μW/m ²	0.01 W/cm ²	10 mW/cm ²	10,000 μW/cm ²
614,003 mV/m	614 V/m	1,000 W/m ²	1,000,000 mW/m ²	1,000,000,000 μW/m ²	0.1 W/cm ²	100 mW/cm ²	100,000 μW/cm ²
1,941,648 mV/m	1942 V/m	10,000 W/m ²	10,000,000 mW/m ²	10,000,000,000 μW/m ²	1 W/cm ²	1,000 mW/cm ²	1,000,000 μW/cm ²
6,140,032 mV/m	6140 V/m	100,000 W/m ²	100,000,000 mW/m ²	100,000,000,000 μW/m ²	10 W/cm ²	10,000 mW/cm ²	10,000,000 μW/cm ²

Formulas: $V/m = \sqrt{(W/m^2 \times 377)}$ Volts per meter = the square root of the product of Watts per square meter times 377

Note: V/m and mV/m are rounded