

Table 22.64

Voltage-Power Conversion Table

Based on a 50-ohm system

Voltage			Power	
<i>RMS</i>	<i>Peak-to-Peak</i>	<i>dBmV</i>	<i>Watts</i>	<i>dBm</i>
0.01 μV	0.0283 μV	-100	2×10^{-18}	-147.0
0.02 μV	0.0566 μV	-93.98	8×10^{-18}	-141.0
0.04 μV	0.113 μV	-87.96	32×10^{-18}	-134.9
0.08 μV	0.226 μV	-81.94	128×10^{-18}	-128.9
0.1 μV	0.283 μV	-80.0	200×10^{-18}	-127.0
0.2 μV	0.566 μV	-73.98	800×10^{-18}	-121.0
0.4 μV	1.131 μV	-67.96	3.2×10^{-15}	-114.9
0.8 μV	2.236 μV	-61.94	12.8×10^{-15}	-108.9
1.0 μV	2.828 μV	-60.0	20.0×10^{-15}	-107.0
2.0 μV	5.657 μV	-53.98	80.0×10^{-15}	-101.0
4.0 μV	11.31 μV	-47.96	320.0×10^{-15}	-94.95
8.0 μV	22.63 μV	-41.94	1.28×10^{-12}	-88.93
10.0 μV	28.28 μV	-40.00	2.0×10^{-12}	-86.99
20.0 μV	56.57 μV	-33.98	8.0×10^{-12}	-80.97
40.0 μV	113.1 μV	-27.96	32.0×10^{-12}	-74.95
80.0 μV	226.3 μV	-21.94	128.0×10^{-12}	-68.93
100.0 μV	282.8 μV	-20.0	200.0×10^{-12}	-66.99
200.0 μV	565.7 μV	-13.98	800.0×10^{-12}	-60.97
400.0 μV	1.131 mV	-7.959	3.2×10^{-9}	-54.95
800.0 μV	2.263 mV	-1.938	12.8×10^{-9}	-48.93
1.0 mV	2.828 mV	0.0	20.0×10^{-9}	-46.99
2.0 mV	5.657 mV	6.02	80.0×10^{-9}	-40.97
4.0 mV	11.31 mV	12.04	320×10^{-9}	-34.95
8.0 mV	22.63 mV	18.06	1.28 μW	-28.93
10.0 mV	28.28 mV	20.00	1 2.0 μW	-26.99
20.0 mV	56.57 mV	26.02	8.0 μW	-20.97
40.0 mV	113.1 mV	32.04	32.0 μW	-14.95
80.0 mV	226.3 mV	38.06	128.0 μW	-8.93
100.0 mV	282.8 mV	40.0	200.0 μW	-6.99
200.0 mV	565.7 mV	46.02	800.0 μW	-0.97
223.6 mV	632.4 mV	46.99	1.0 mW	0
400.0 mV	1.131 V	52.04	3.2 mW	5.05
800.0 mV	2.263 V	58.06	12.80 mW	11.07
1.0 V	2.828 V	60.0	20.0 mW	13.01
2.0 V	5.657 V	66.02	80.0 mW	19.03
4.0 V	11.31 V	72.04	320.0 mW	25.05
8.0 V	22.63 V	78.06	1.28 W	31.07
10.0 V	28.28 V	80.0	2.0 W	33.01
20.0 V	56.57 V	86.02	8.0 W	39.03
40.0 V	113.1 V	92.04	32.0 W	45.05
80.0 V	226.3 V	98.06	128.0 W	51.07
100.0 V	282.8 V	100.0	200.0 W	53.01
200.0 V	565.7 V	106.0	800.0 W	59.03
223.6 V	632.4 V	107.0	1,000.0 W	60.0
400.0 V	1,131.0 V	112.0	3,200.0 W	65.05
800.0 V	2,263.0 V	118.1	12,800.0 W	71.07
1000.0 V	2,828.0 V	120.0	20,000 W	73.01
2000.0 V	5,657.0 V	126.0	80,000 W	79.03
4000.0 V	11,310.0 V	132.0	320,000 W	85.05
8000.0 V	22,630.0 V	138.1	1.28 MW	91.07
10,000.0 V	28,280.0 V	140.0	2.0 MW	93.01