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Magnetic Field Conversion Factors

Add the indicated value to convert from ↓ to →	dBuV/m	dB Gauss	dBpT	dBuA/m	dBWb/m ²	dB gamma
0 dB microvolts-per meter =	0	-209.5	-49.5	-51.5	-289.5	-109.5
0 dB gauss (1) =	209.5	0	160	158	-80	100
0 dB picotesla	49.5	-160	0	-2	-240	-60
0 dB microampere-per-meter =	51.5	-158	2	0	-238	-58
0 dB weber per-square meter (2) =	289.5	80	240	238	0	180
0 dB gamma =	109.5	-100	60	58	-180	0

Multiply by the indicated value to convert ↓ to →	uV/m	Gauss	pT	uA/m	Wb/m ²	gamma
1 microvolt-per-meter =	1	3.3×10^{-11}	3.3×10^{-3}	2.65×10^{-3}	3.3×10^{-15}	3.3×10^{-6}
1 guass(1) =	3×10^{10}	1	1×10^8	7.96×10^7	1×10^{-4}	1×10^5
1 picotesla =	3×10^2	1×10^{-8}	1	7.96×10^{-1}	1×10^{-12}	1×10^{-3}
1 microampere-per-meter =	3.77×10^2	1.26×10^{-8}	1.26	1	1.26×10^{-12}	1.26×10^{-3}
1 weber-per-square meter =	3×10^{14}	1×10^4	1×10^{12}	7.96×10^{11}	1	1×10^9
1 gamma =	3×10^5	1×10^{-5}	1×10^3	7.96×10^2	1×10^{-9}	1

Notes:

- (1) One gauss and one oersted are equivalent and may be interchanged.
- (2) One weber-per-square meter and one tesla are equivalent and may be interchanged.
- (3) Decibel values are "rounded off" to the nearest 0.5 dB.