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EMI Conversion Tables

POWER

| CONVERT FROM | TO | FUNCTION |
|--------------------|--------------------|--------------------|
| dBm | dB μ V | add 107dB |
| dB μ V | dBm | subtract 107dB |
| dBm/m ² | dB μ V/m | add 115.77 dB |
| dB μ V/m | dBm/m ² | subtract 115.77 dB |
| mW/cm ² | W/m ² | multiply by 10 |
| W/m ² | mW/cm ² | divide by 10 |

VOLTAGE

| CONVERT FROM | TO | FUNCTION |
|--------------------|--------------------|-------------------------|
| dB above 1 μ V | μ V | antilog (dB μ V/20) |
| μ V | dB above 1 μ V | 20log(μ V) |
| μ V/MHz | μ V/kHz | divide by 1000 |
| μ V/kHz | μ V/MHz | multiply by 1000 |
| dB μ V/MHz | dB μ V/kHz | subtract 60dB |
| dB μ V/kHz | dB μ V/MHz | add 60dB |

FIELD STRENGTH

| CONVERT FROM | TO | FUNCTION |
|---------------------|---------------------|-------------------------------|
| V/m | W/m ² | (V/m) ² ÷ 377 |
| W/m ² | V/m | SQR (377 X W/m ²) |
| mW/m ² | mW/cm ² | multiply by 10 ⁻⁴ |
| mW/cm ² | mW/m ² | multiply by 10 ⁴ |
| dBm/m ² | dBm/cm ² | subtract 40dB |
| dBm/cm ² | dBm/m ² | add 40dB |

MAGNETIC FIELD

| CONVERT FROM | TO | FUNCTION |
|--------------|--------------|------------------------------|
| oersted | ampere/meter | multiply by 79.58 |
| ampere/meter | oersted | divide by 79.58 |
| faraday | coulombs | multiply by 96,490 |
| coulombs | faraday | divide by 96,490 |
| gauss | tesla | multiply by 10 ⁻⁴ |
| tesla | gauss | multiply by 10 ⁴ |
| gilbert | ampere turn | multiply by 0.7958 |
| ampere turn | gilbert | divide by 0.7958 |
| maxwell | weber | multiply by 10 ⁻⁸ |
| weber | maxwell | multiply by 10 ⁸ |

Frequency (F) and Wavelength (λ) Conversions

| METRIC |
|---|
| Frequency in kHz = (300,000) / wavelength in meters |
| Frequency in MHz = (300) / wavelength in meters |
| Wavelength in meters = (300,000) / frequency in kHz |
| Wavelength in meters = (300) / frequency in MHz |

| ENGLISH |
|---|
| Frequency in kHz = (984,000) / wavelength in feet |
| Frequency in MHz = (984) / wavelength in feet |
| Wavelength in feet = (984,000) / frequency in kHz |
| Wavelength in feet = (984) / frequency in MHz |