

Re: Calc. energy harmonics

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For example, an RF fundamental and the frequency obtained by dividing it in successively in two 20 or 30 times.

Thank you,

Jim Slatter

Wouldn't that depend on the shape of the waveform?

Indeed it does. Pure sine waves, for example, have no harmonics. A distorted sine wave has harmonics proportional to the percentage of distortion.

Harry C.

I am referring to a "resonant" frequency irrespective of waveform. Here is a specific example. I have two separate signals of equal amplitude. One is a 1GHz sinewave, the other is 1GHz divided by 20 times to produce a distant lower octave.

How do I calculate the proportion of energy density of the distant octave compared to that of the fundamental, assuming all else is equal?

Jim Slatter

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