

Explanation Request 2007-C63-SC1-1

Question:

Regarding C63.2, If I consider a sinusoidal carrier input signal " $B\cos(\omega t)$ ", I will read " $B/\sqrt{2}$ volts" using the rms detector circuit. Does this mean that I will also read the same value " $B/\sqrt{2}$ volts" for the same sinusoidal carrier if I employ the average detector circuit of Clause 10.4?

Answer:

This clause describes the calibration as the measurement of a known sine wave input. The measured average should equal the computed RMS value. In short the answer to your question is - Yes!

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