

Date July 24, 2012	Document ANSI C63.2:2009
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National Committee	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
	2	Table 1 Item 19	Technical	Can you provide a definition of Receiver Crest Factor?		<p>The Crest Factor (CF) is defined as the ratio of the peak amplitude of a waveform to its RMS value. It is a numerical value without units.</p> $CF = 20 \cdot \log(V_p/V_{rms})$ <p>CF is the Crest Factor V_p is the peak voltage V_{rms} is the RMS voltage</p> <p>The stated value of 20 dB indicates that the receiver must be able to measure peak voltages that are at minimum 10 times larger than the associated rms value of the same signal. This specification is rarely used today and enveloped by the dynamic range and or linearity specifications for individual detectors.</p> <p>See also IEEE 100-2000 for this definition.</p>
	2	Table 1 Item 1	Technical	For measurements in the 18-40GHz frequency range, can receivers with 50 ohm input impedance be used? C63.2 states that the input impedance should be "Waveguide", yet most receivers today use a 50 ohm input.		It is correct that almost all receivers used today for EMI measurements have a coax input with an impedance of 50 Ω . As such, this specification of the standard is outdated. It is certainly permissible to use a receiver with an input impedance of 50 Ω up to 40 GHz.
	2	Table 1	Technical	I have a spectrum analyzer that I believe meets the C63.2 requirements above 1 GHz. It does not meet the requirements below 1 GHz. Am I allowed to use this spectrum analyzer for measurements above 1 GHz if it meets the requirements of C63.2?		Yes. If the instrument meets the requirements in part of the frequency range of interest it can be used for measurements in the compliant frequency range. However, the requirements in CISPR 16-1-1 and ANSI C63.2 may differ. The user must ensure that all applicable receiver specifications called out in these standards are met before the equipment is used for measurements in accordance with associated product standards.