



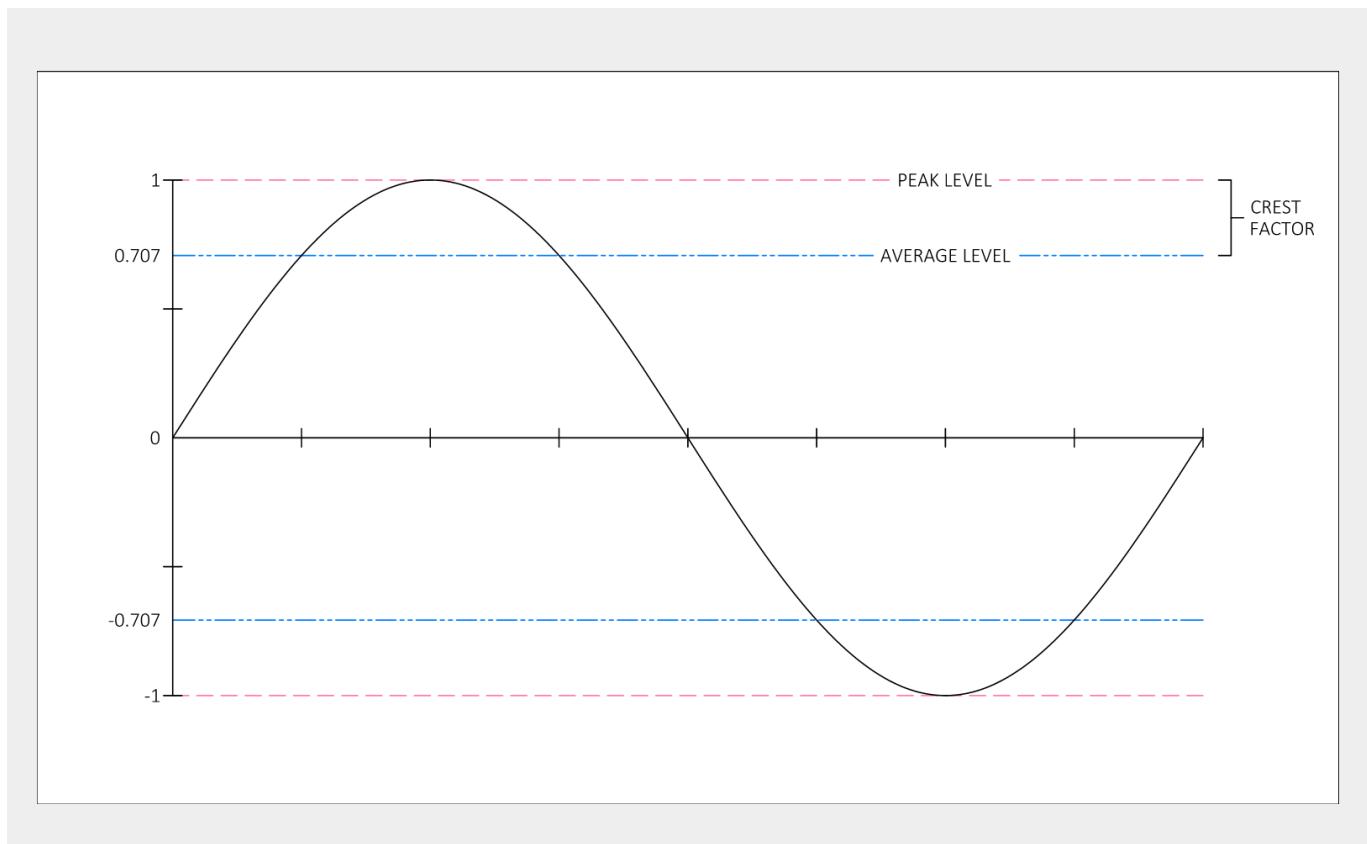
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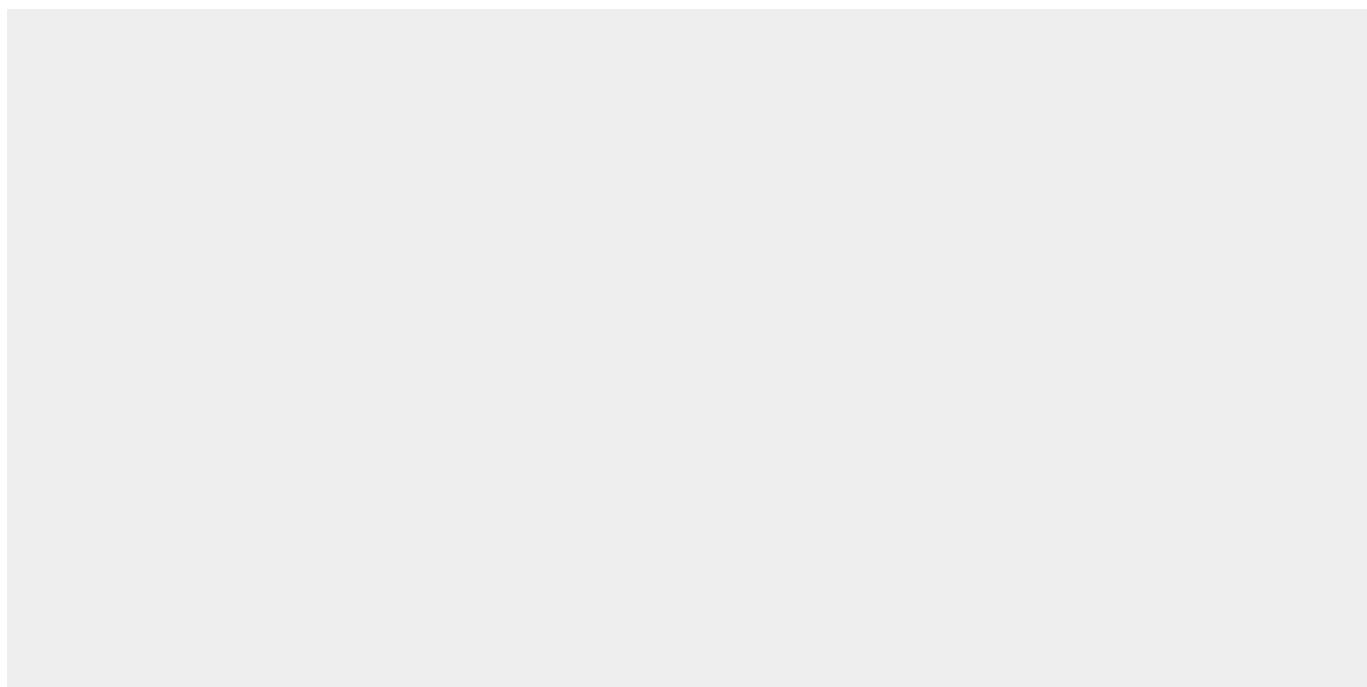


## Crest factor, Peak factor



Peak RMS

가 ) 가 Peak RMS 가 18dB .(





Peak RMS

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Peak RMS

Waveform	Effective value Vrms	Average value Vavg	Conversion factor Vrms/Vavg	Reading errors for average sensing Instruments	Crest factor CF
	$\frac{1}{\sqrt{2}} A \approx 0.707$	$\frac{2}{\pi} A \approx 0.637$	$\frac{\pi}{2\sqrt{2}} \approx 1.111$	0%	$\sqrt{2} \approx 1.414$
	A	A	1	$\frac{A \times 1.111 - A}{A} \times 100 = 11.1\%$	1
	$\frac{1}{\sqrt{3}} A$	0.5A	$\frac{2}{\sqrt{3}} \approx 1.155$	$\frac{0.5A \times 1.111 - \frac{A}{\sqrt{3}}}{\frac{A}{\sqrt{3}}} \times 100 = -3.8\%$	$\sqrt{3} \approx 1.732$
	$A\sqrt{D}$	$A \frac{f}{T} = A \cdot D$	$\frac{A\sqrt{D}}{AD} = \frac{1}{\sqrt{D}}$	$(1.111\sqrt{D} - 1) \times 100\%$	$\frac{A}{\sqrt{AD}} = \frac{1}{\sqrt{D}}$

CF : Crest Factor = Peak value/RMS value

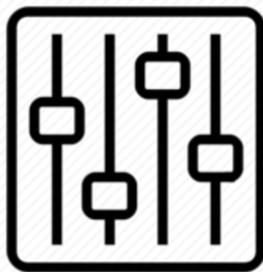
$$DC = 1$$

$$\text{Sine wave} = 1.414$$

## Reference

<https://www.izotope.com/en/learn/what-is-crest-factor.html>

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Last update: **2024/03/29**

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