



<http://wiki.homerecz.com>

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Reference 7

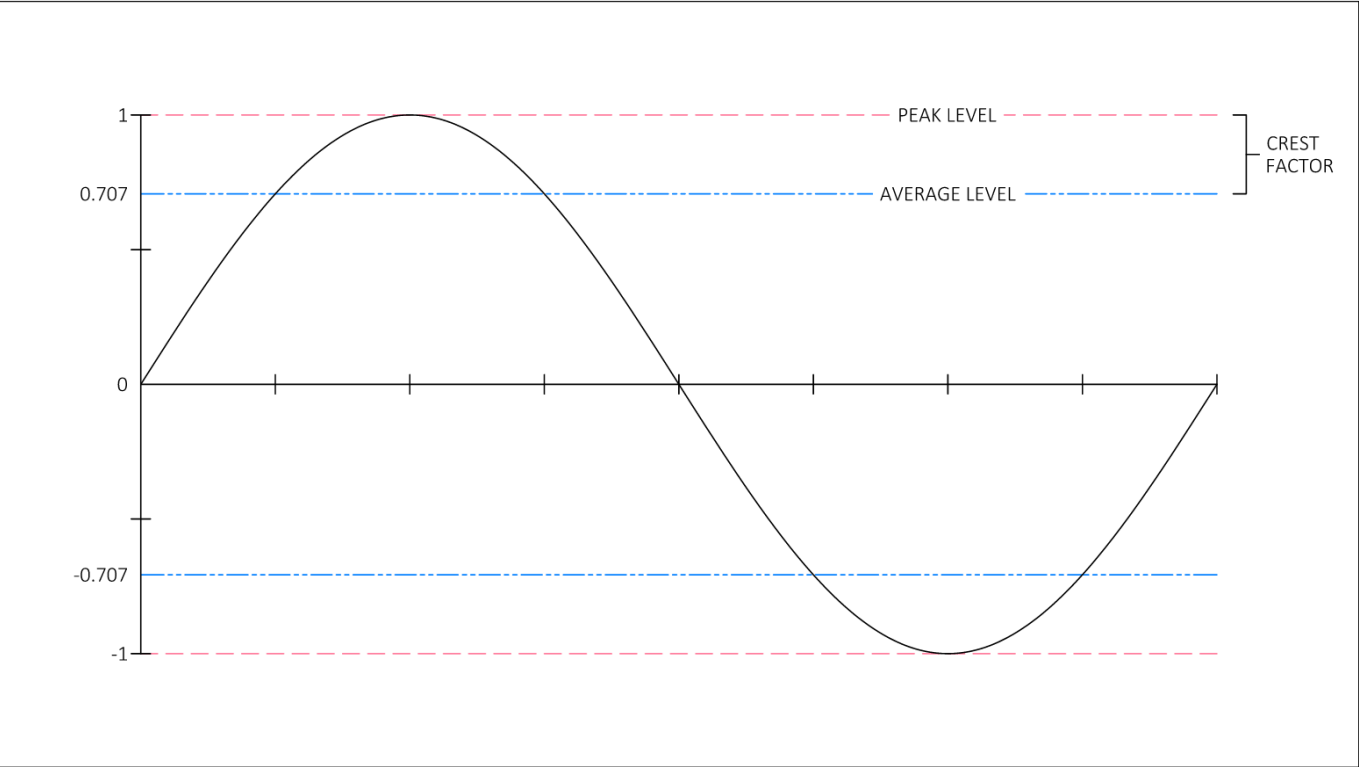
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Crest factor, Peak factor



Peak RMS

가 가 Peak RMS 가 18dB .(

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Peak RMS Dorrough , Peak RMS ,

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

CF : Crest Factor = Peak value/RMS value

DC = 1

Sine wave = 1.414

Reference

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



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