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Crest factor, Peak factor,

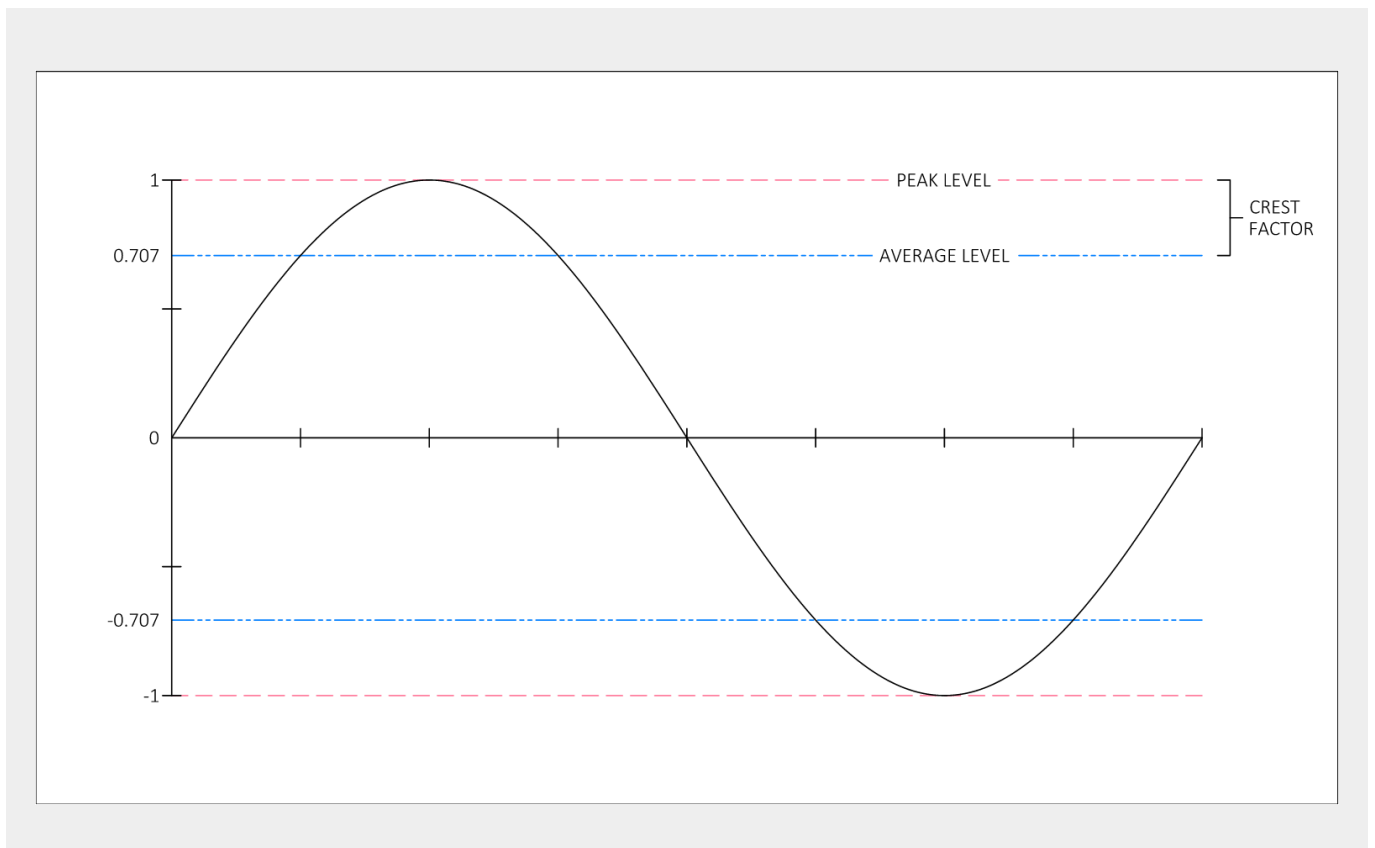
(Peak)

(RMS, Root Mean Square)

$$CrestFactor = \frac{Peak\ Value}{RMS\ Value}$$

() **(dB)** , dB

$$CrestFactor(dB) = 20 \times \log_{10} \left(\frac{Peak\ Value}{RMS\ Value} \right)$$



- 가 RMS
- 가 (Sustained Sound)

	()
(Kick, Snare, Cymbal)	18dB (가)
	9~12dB
,	12~18dB
,	6~9dB ()
	6dB (가)

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
	$\frac{1}{\sqrt{3}} A$	0.5A	$\frac{2}{\sqrt{3}}$ ≅ 1.155	$\frac{0.5A \times 1.111 - \frac{A}{\sqrt{3}}}{\frac{A}{\sqrt{3}}} \times 100$ = -3.8%	$\sqrt{3}$ ≅ 1.732
	$A\sqrt{D}$	$A \frac{f}{T}$ = A · D	$\frac{A\sqrt{D}}{AD} = \frac{1}{\sqrt{D}}$	$(1.111\sqrt{D} - 1) \times 100\%$	$\frac{A}{\sqrt{AD}} = \frac{1}{\sqrt{D}}$

DC = 1, Sine wave = 1.414

Reference

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



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