



<http://wiki.homerecz.com>



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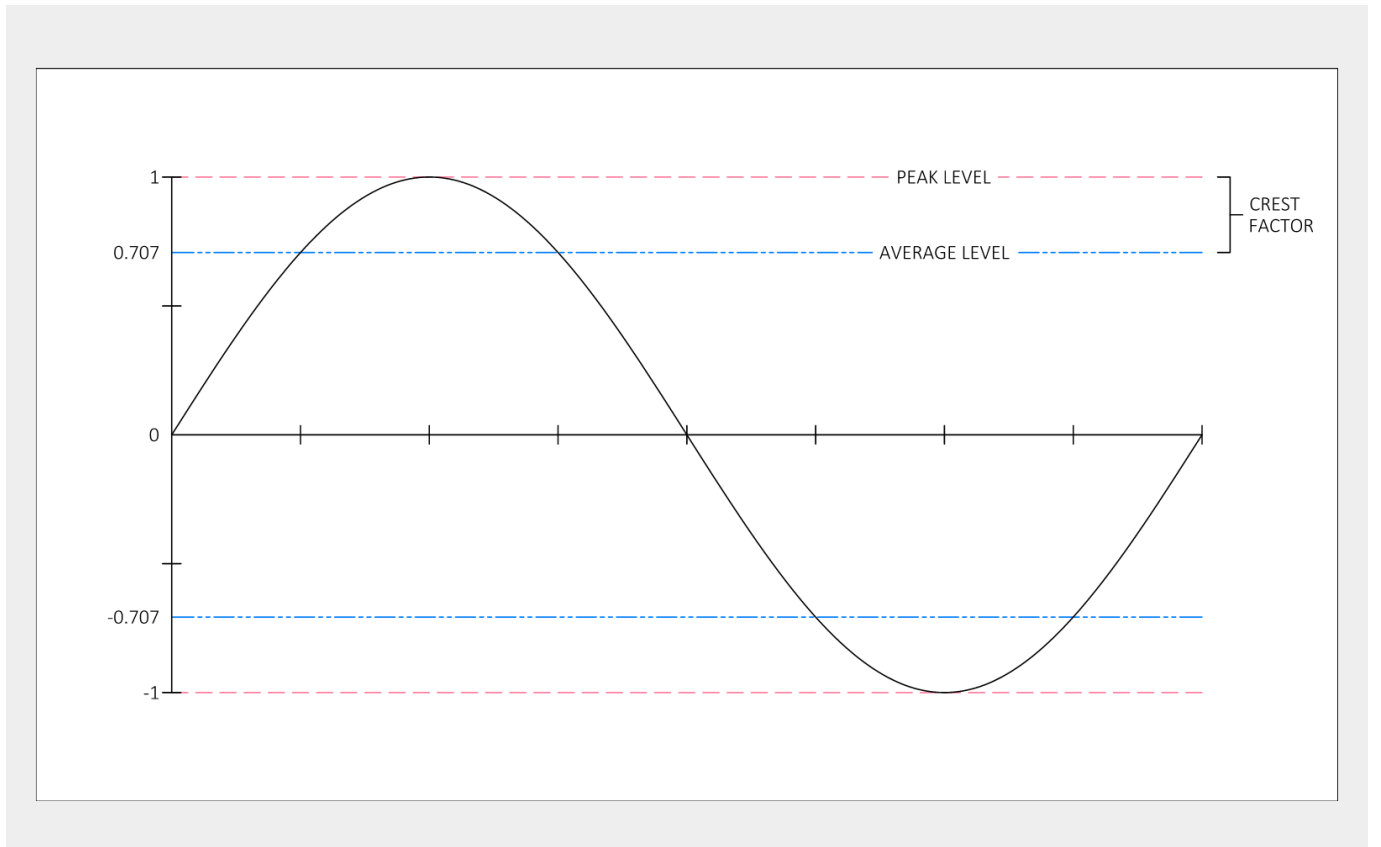
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### Crest factor, Peak factor



Peak RMS

가 ) 가 Peak RMS 가 18dB .(



Peak RMS

Dorrough

, Peak RMS ,

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

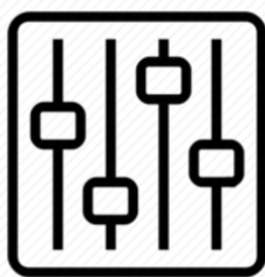
CF : Crest Factor = Peak value/RMS value

DC = 1

Sine wave = 1.414\

## Reference

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



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