

Form factor(K_f)

The ratio of RMS value to the average value of an alternating quantity is called form factor.

Form factor = rms value / average value

Hence for a sinusoidal quantity, we have

Form factor = rms value / average value

= $(0.707 * \text{max value}) / (0.637 * \text{max value})$

= 1.11

PEAK FACTOR (K_p)

Peak factor or amplitude factor(K_p)

The ratio of maximum value to the rms value of an alternating quantity is called its peak factor.

Peak factor = max value / rms value

Hence for sinusoidal quantity, we have

Peak factor = max value / rms value

= max value / (0.707 * max value)

= 1/0.707

= 1.414