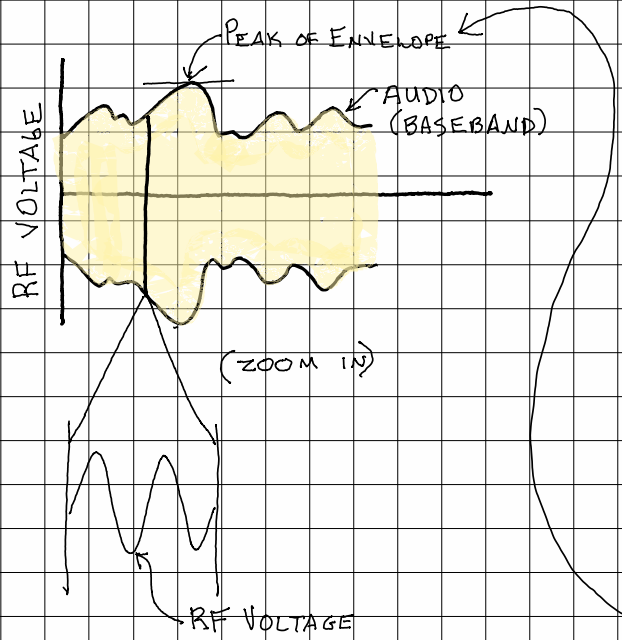
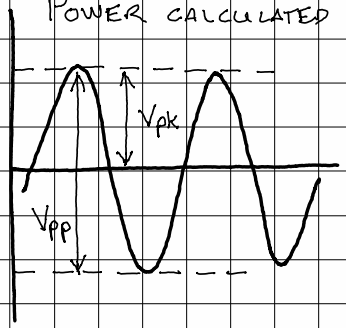
SSB & AM Envelope
Peak Envelope Power & More

RF Envelope



RF Voltage & Power



$$V_{RMS} = \frac{V_{pk}}{\sqrt{2}}$$

$$= V_{pk} \times 0.7071$$

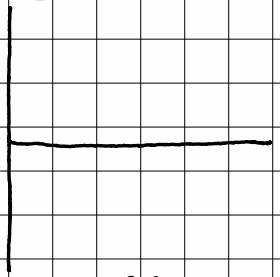
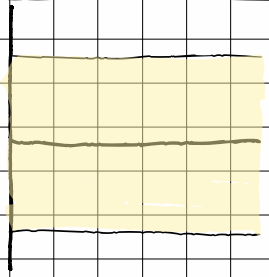
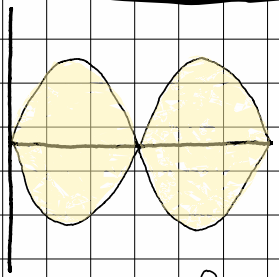
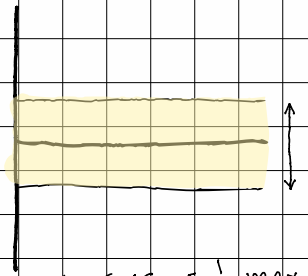
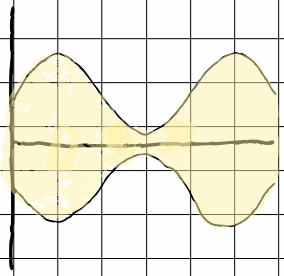
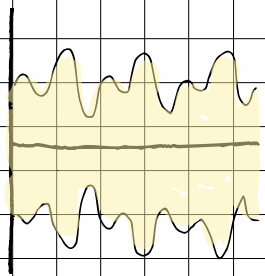
$$P = \frac{(V_{RMS})^2}{50}$$

(IN 50Ω SYSTEM)

PEP = Peak Envelope Power

- CALCULATED FROM V_{RMS} MEASURED AT THE PEAK OF THE RF ENNELOPE.

RF ENVELOPES FOR SSB & AM

	NO AUDIO	SINGLE TONE	TWO TONE
SSB	 - NO RF OUTPUT	 - CONSTANT AMP. & FREQUENCY	 - AVERAGE POWER EQUALS $\frac{1}{2}$ PEP
AM	 - VOLTAGE IS $\frac{1}{2}$ MAX - POWER IS $\frac{1}{4}$ PEP	 - OFTEN MISTAKEN FOR SSB TWO-TONE	 - USED MAINLY FOR MODULATOR LINEARITY TESTING