# Tweeter (T)



# Midrange (M)



# Woofer (W)



### Accuton C30-6-023 1.2" Ceramic Dome Tweeter

Frequency Range 1.8 kHz - 25 kHz Impedance  $6.3 \Omega$ 

89.5 dB lp 2.83V/1m Sensitivity

Resonance Frequency 570 Hz

Frequency Range 200 Hz - 5 kHz Impedance 6.4 Ω

Sensitivity 88.0 dB lp 2.83V/1m

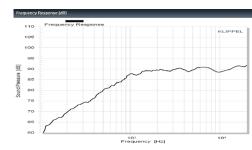
100 Hz Resonance Frequency

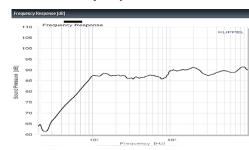
### Accuton C90-6-078 5" Ceramic Dome Midrange Accuton C220-6-221 8" Ceramic Cone Woofer

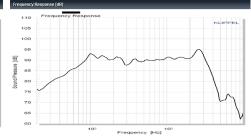
32 Hz - 2 kHz Frequency Range Impedance 5.8 Ω

Sensitivity 90.0 dB lp 2.83V/1m

28 Hz Resonance Frequency







$$\beta_1 = f_{\text{W(max)}} - f_{\text{M(min)}}$$
 $f_{\text{cl}} = f_{\text{M(min)}} + 0.25 \beta_1$ 
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$$\beta_2 = f_{\text{M(max)}} - f_{\text{T(min)}}$$
  $f_{\text{c2}} = f_{\text{T(min)}} + 0.75 \beta_2$ 

= 5 kHz - 1.8 kHz = 3.2 kHz

$$=4.2 \text{ kHz}$$

$$f_{c2} \ge 4 \text{ kHz} \text{ PASS}$$

$$\frac{f_{c2}}{f} \ge 6$$
 PASS

$$\frac{f_{c2}}{f_{sT}} \ge 3$$
 PASS  $\frac{f_{c2}}{f_{c1}} \ge 6$  PASS  $\frac{f_{c1}}{f_{sW}} \ge 3$  PASS

 $f_{c1} \ge 500 \text{ Hz} \text{ PASS}$ 

$$\frac{f_{c2}}{f}$$
 = 7.368  $f_{sT}$  = 570 Hz

$$\frac{f_{c2}}{f} = 6.462$$

$$\frac{f_{\rm c2}}{f_{\rm sT}} = 7.368$$
  $f_{\rm sT} = 570~{\rm Hz}$   $\frac{f_{\rm c2}}{f_{\rm cl}} = 6.462$   $\frac{f_{\rm cl}}{f_{\rm sW}} = 23.214$   $f_{\rm sW} = 28~{\rm Hz}$ 

C1 = 
$$\frac{1}{2\pi f_{c2}Z_{T}}$$
  $Z_{T} = 6.3 \Omega$   $L1 = \frac{Z_{M}}{2\pi f_{c2}}$   $Z_{M} = 6.3 \Omega$   $L2 = \frac{Z_{W}}{2\pi f_{c1}}$   $Z_{W} = 5.8 \Omega$   $C1 = 6.015 \ \mu\text{F}$   $L1 = 242.52 \ \mu\text{H}$   $L2 = 1.420 \ \text{mH}$ 

$$L1 = \frac{Z_{\rm M}}{2\pi f_{\rm c2}}$$
  $Z_{\rm M} = 6.3 \ \Omega$ 

$$L2 = \frac{Z_{\rm W}}{2\pi f_{\rm cl}}$$
  $Z_{\rm W} = 5.8 \ \Omega$ 

$$C1 = 6.015 \ \mu F$$

$$L1 = 242.52 \mu H$$

$$L2 = 1.420 \text{ mH}$$

$$C2 = \frac{1}{2\pi f_{cl} Z_{M}} \quad Z_{M} = 6.4 \ \Omega$$

$$C2 = 38.258 \ \mu F$$

