



## K-33-4 REPLACEMENT 15" WOOFER FOR KLIPSCH SPEAKERS

### FEATURES

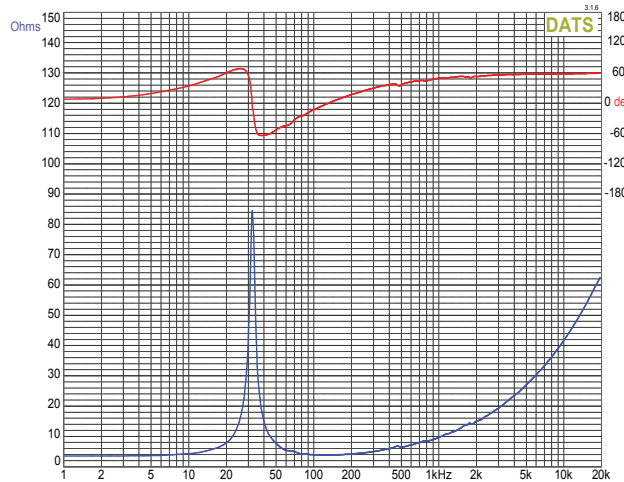
- Replacement for the popular Klipsch K33 Woofer
- Fits popular Klipsch Heritage Cabinets: Klipschorn, Belle Klipsch, Cornwall, Lascala
- Perfect visual match for restored Klipsch cabinets
- Triple-roll surround and paper cone provide a perfect tonal match
- Replacement for K-43-E, K-33-B, K-33-J, K-33-K and more

### PARAMETERS

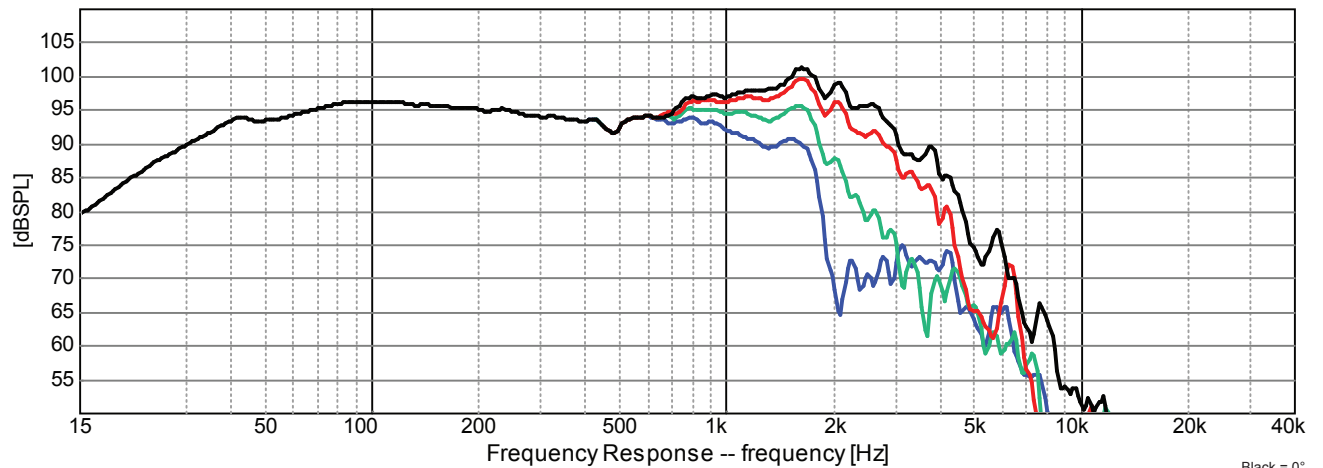
Impedance:	4 ohms
Re:	3.5 ohms
Le:	1.13 mH
Fs:	32.2 Hz
Qms:	12.6
Qes:	0.55
Qts:	0.52
Mms:	91.6 g
Cms:	0.27 mm/N
Sd:	855.3 cm <sup>2</sup>
Vd:	709.9 cm <sup>3</sup>
BL:	10.9 Tm
Vas:	274.2 liters
Xmax:	8.3 mm
VC Diameter:	50.8 mm
SPL:	97.7 dB @ 2.83V/1m
RMS Power Handling (AES 426B):	200 watts
Usable Frequency Range:	30 – 2,000 Hz

$$* X_{max} = \left[ \frac{\text{Voice Coil Length} - \text{Top Plate Height}}{2} \right]$$

### IMPEDANCE/PHASE



### FREQUENCY RESPONSE



Note: 1/24<sup>th</sup> octave smoothing - nearfield response included in graph below 450 Hz.

Black = 0°  
Red = 15°  
Green = 30°  
Blue = 45°

### MECHANICAL DRAWING

