



**811647**

**TWEETER 1"/100mmØ HORN LOADED**

**TWEETER 1"/100mmØ HORN LOADED**

The horn loaded tweeter offers increased sensitivity for high efficiency, high output designs. Same 1" soft dome tweeter as the other high end Peerless tweeters, but with a horn baffle directing the sound forward giving increased gain and about a 6dB drop 15° off-axis. Recommended for applications where a high output is needed. Also achieves linear-phase design with its 20mm countersinking (shares the sound origin of the woofer). Nominal impedance  $Z_n(\text{ohm})8$

Minimum impedance/at freq.	$Z_{min}$	(ohm/Hz)	7.7/3730
Maximum impedance	$Z_o$	(ohm)	40.4
DC resistance	$R_e$	(ohm)	6.8
Voice coil inductance	$L_e$	(mH)	0.1
Resonance Frequency	$f_s$	(Hz)	1040
Mechanical Q factor	$Q_{ms}$		5.16
Electrical Q factor	$Q_{es}$		1.04
Total Q factor	$Q_{ts}$		0.87
Mechanical resistance	$R_{ms}$	(Kg/s)	0.33
Moving mass	$M_{ms}$	(g)	0.26
Suspension compliance	$C_{ms}$	(mm/N)	0.09
Effective cone diameter	$D$	(cm)	2.8
Effective piston area	$S_d$	(cm <sup>2</sup> )	6.2
Force factor	$Bl$	(N/A)	3.3
Reference voltage sensitivity			
Re 2.83V 1m at 3730 Hz (Measured)		(dB)	99.0
Voice coil diameter	$d$	(mm)	26
Voice coil length	$h$	(mm)	1.6
Voice coil layers	$n$		2
Flux density in gap	$B$	(T)	1.5
Total useful flux		(mWb)	0.3
Height of the gap	$h_g$	(mm)	2.5
Diameter of magnet	$d_m$	(mm)	72
Height of magnet	$h_m$	(mm)	15
Weight of magnet		(kg)	0.24
<b>Power handling:</b>			
Long term Max System Power (IEC)	(W)		100
Max linear SPL (rms) / by power	(dB/W)		111/25
Code			811647

