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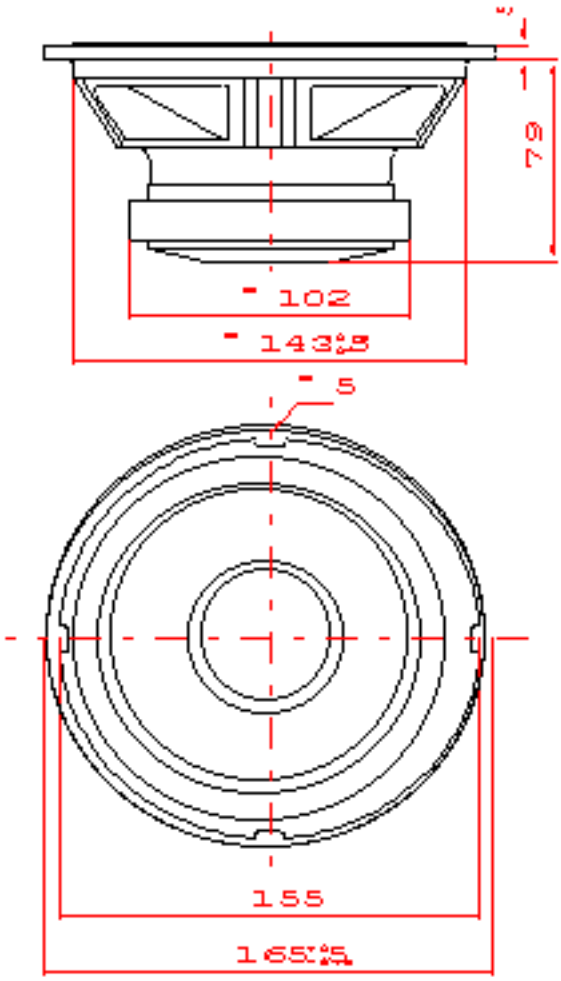
Peerless Data Sheet

WR 165

165 WR 33 102 PPB 8 ohm - Order ID: 833599

The woofer has a heavy voice coil, large magnet, and low loss rubber surround. It has high power handling and is specially optimised for use in small bass reflex constructions.

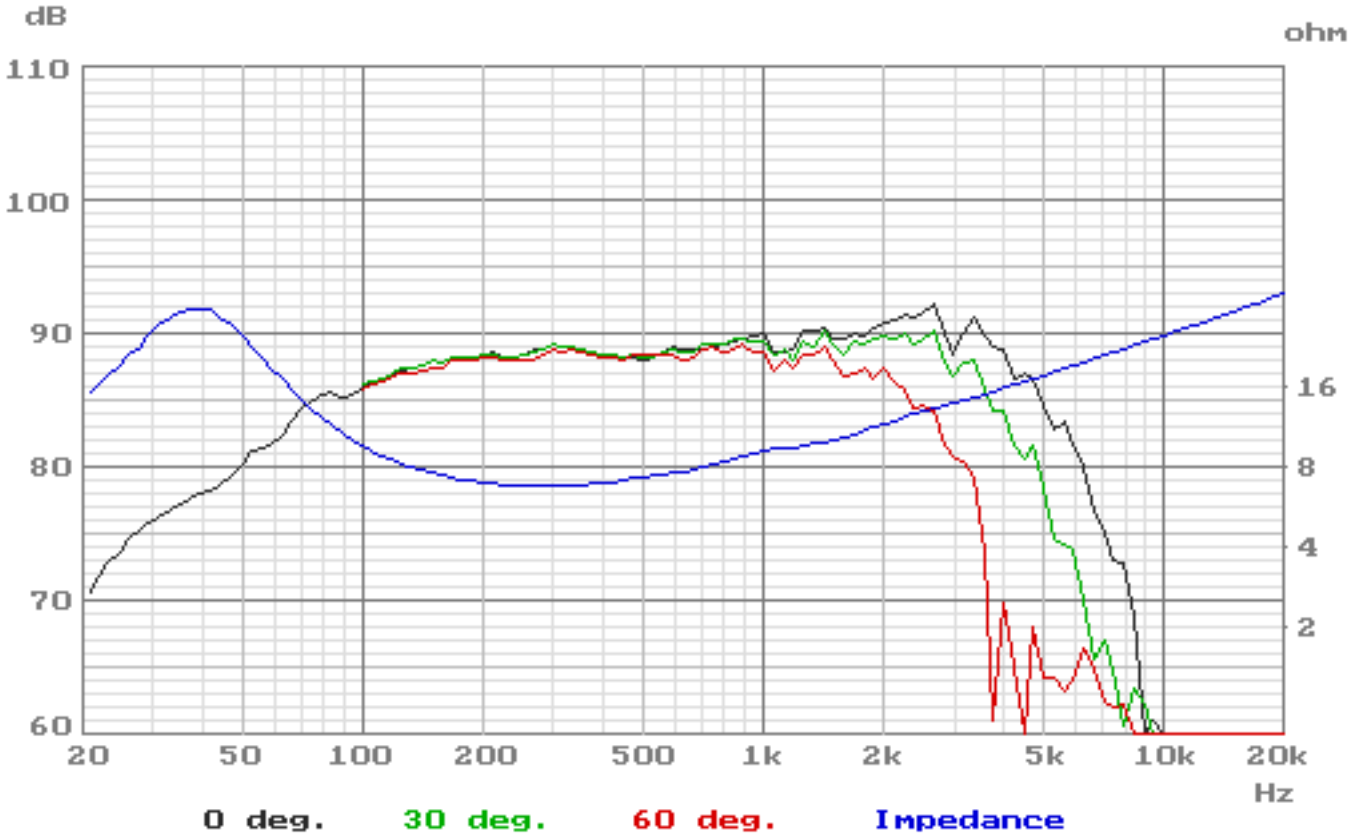


WR 165

Thiele Small parameters:			Free air	Common	Baffled
Nominal impedance	Zn	(ohm)		8	
Minimum impedance/at freq.	Zmin	(ohm/Hz)		7.0/291	
Maximum impedance	Zo	(ohm)		34.0	
DC resistance	Re	(ohm)		6.3	
Voice coil inductance	Le	(mH)		1.2	
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(µF)		11	
Resonance Frequency	fs	(Hz)	36.2		35.0
Mechanical Q factor	Qms		1.55		1.60
Electrical Q factor	Qes		0.35		0.36
Total Q factor	Qts		0.28		0.29
F (Ratio fs/Qts)	F	(Hz)			119
Mechanical resistance	Rms	(Kg/s)		2.12	
Moving mass	Mms	(g)	14.4		15.4
Suspension compliance	Cms	(mm/N)		1.34	
Effective cone diameter	D	(cm)		12.9	
Effective piston area	Sd	(cm^2)		130	
Equivalent volume	VAS	(ltrs)		32.2	
Force factor	Bl	(N/A)		7.7	
Reference voltage sensitivity Re 2.83V 1m at 291 Hz (Measured)		(dB)			88.0

Magnet and voice coil parameters:			
Voice coil diameter	d	(mm)	33
Voice coil length	h	(mm)	14.0
Voice coil layers	n		2
Flux density in gap	B	(T)	1.13
Total useful flux		(mWb)	1.03
Height of the gap	hg	(mm)	6
Diameter of magnet	dm	(mm)	102
Height of magnet	hm	(mm)	16
Weight of magnet		(kg)	0.54

Power handling:		
Long term Max System Power (IEC)	(W)	150
Max linear SPL (rms) / by power	(dB/W)	106/90



Measuring methods and conditions are stated in Peerless Standard for Acoustic Measurements (PSAM)