

Model Number: GBS-135F25AL02-04
Product Line: Peerless Gold

Revision: Rev 3_0
Date: 30-Oct-13

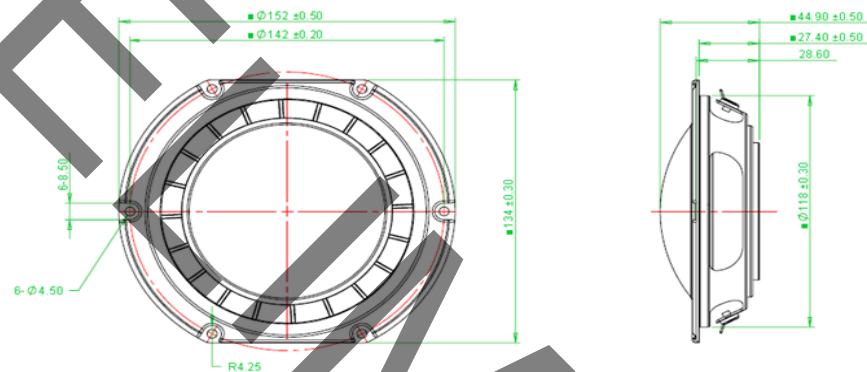


Product Description:

This 5.25 inch 4 Ω transducer member of the GBS family provides a very slim woofer capable of large excursion. A highly optimized ferrite magnet and unique suspension layout combine to give a cost effective solution in a previously unavailable package.



Mechanical 2D Drawing:

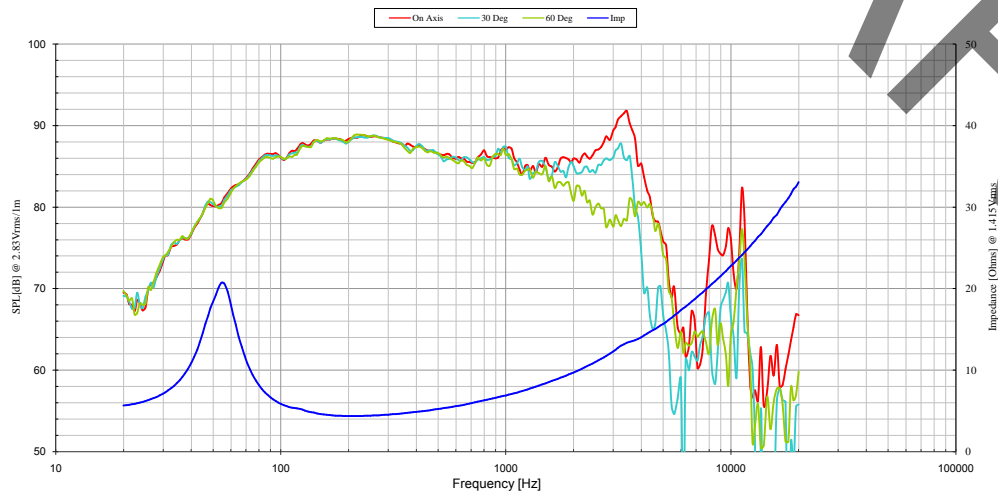


Specifications:

DC Resistance	R_{dc}	Ω	3.4	$\pm 7.5\%$	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	94
Minimum Impedance	Z_{min}	Ω	4.4	$\pm 7.5\%$	Moving Mass	M_{ms}	g	14.52
Voice Coil Inductance	L_e	mH	0.40		Suspension Compliance	C_{ms}	um/N	0.5
Resonant Frequency	f_s	Hz	62	$\pm 15\%$	Effective Cone Diameter	D	cm	10.4
Mechanical Q Factor	Q_{ms}	-	3.2		Effective Piston Area	S_D	cm ²	85.7
Electrical Q Factor	Q_{es}	-	0.66		Equivalent Volume	V_{as}	L	4.890
Total Q Factor	Q_{ts}	-	0.55		Motor Force Factor	BL	T-m	5.36
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	113		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	8.50
Half Space Sensitivity @ 2.83V	dB@2.83V/1m	dB	88.6	$\pm 1.0^1$	Voice Coil Former Material	VC _{fm}	-	ASV
Sensitivity @ 1W/1m	1W/1m	dB	85.0	$\pm 1.0^1$	Voice Coil Inner Diameter	VC _d	mm	25.50
Rated Noise Power (IEC 2685 18.1)	P	W	TBD		Gap Height	Gh	mm	6.00
Test Spectrum Bandwidth	N/A		12 dB/Oct		Maximum Linear Excursion	X_{max}	mm	3.30
					Ferrofluid Type	FF	-	N/A
					Transducer Size	-	-	5.25 inch
					Transducer Mass	-	Kg	0.80

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:



F088-0713A