

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

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

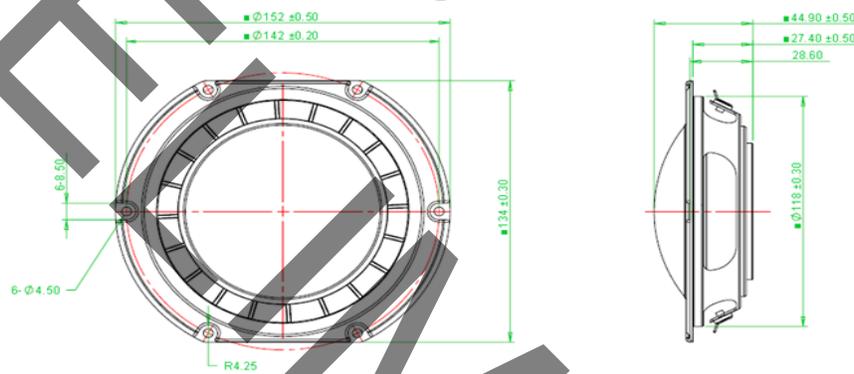


**Product Description:**

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:**

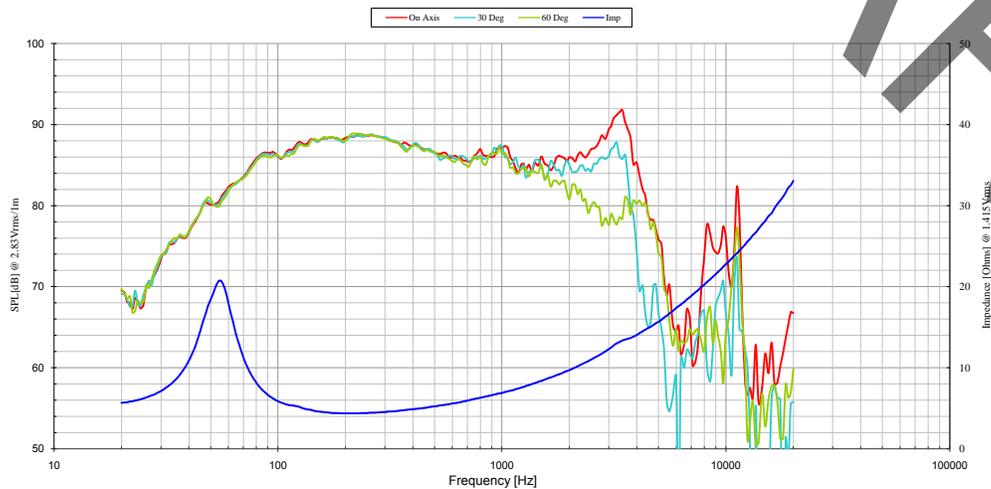


**Specifications:**

DC Resistance	$R_{DC}$	$\Omega$	3.4	$\pm 7.5\%$	Energy Bandwidth Product	EBP	$(1/Q_{ms}) \cdot f_s$	94
Minimum Impedance	$Z_{min}$	$\Omega$	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 <sup>2</sup>	85.7
Electrical Q Factor	$Q_{es}$	-	0.66		Equivalent Volume	$V_{eq}$	L	4.690
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	$\beta$	$(T \cdot m^2) / \Omega$	8.50
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	88.6	$\pm 1.0^1$	Voice Coil Former Material	VC <sub>fm</sub>	-	ASV
Sensitivity @ 1W/1m	$1W/1m$	dB	85.0	$\pm 1.0^1$	Voice Coil Inner Diameter	VC <sub>g</sub>	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	-	-	0.80 Kg

1 - Piston Band Sensitivity Tolerance

**Frequency and Impedance Response:**



F088-0713A