

Model Number: GBS-250F38CP01-04
 Product Line: Peerless Silver

Revision: Rev DVR 3
 Date: 13-Mar-14



Product Description:

This 10 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:

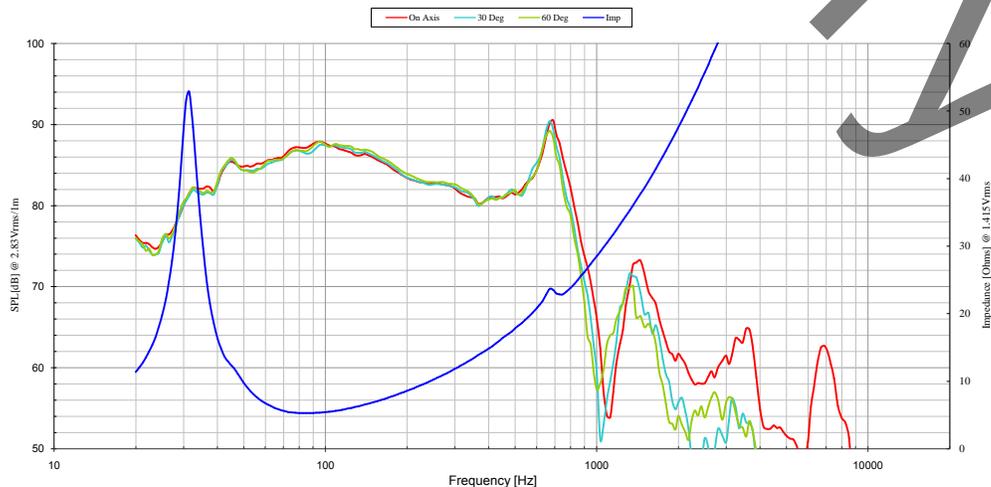


Specifications:

DC Resistance	R_{DC}	Ω	3.5	±7.5%	Energy Bandwidth Product	EBP	$(1/Q_{es}) \cdot f_s$	75
Minimum Impedance	Z_{min}	Ω	5.3	±7.5%	Moving Mass	M_{ms}	g	108.04
Voice Coil Inductance	L_e	mH	1.74		Suspension Compliance	C_{ms}	um/N	207.9
Resonant Frequency	f_s	Hz	34	±15%	Effective Cone Diameter	D	cm	20.0
Mechanical Q Factor	Q_{ms}	-	6.1		Effective Piston Area	S_D	cm ²	314.2
Electrical Q Factor	Q_{es}	-	0.46		Equivalent Volume	V_{as}	L	28.821
Total Q Factor	Q_{ts}	-	0.42		Motor Force Factor	BL	T·m	13.30
Ratio f_s / Q_{ts}	F	f_s / Q_{ts}	80		Motor Efficiency Factor	β	$(T \cdot m^2) / \Omega$	50.16
Half Space Sensitivity @ 2.83V	$dB @ 2.83V/1m$	dB	88.7	±1.0 ¹	Voice Coil Former Material	VC_{fm}	KSV	
Sensitivity @ 1W/1m	$1W/1m$	dB	85.7	±1.0 ¹	Voice Coil Inner Diameter	VC_g	mm	38.75
Rated Noise Power (IEC 2685 18.1)	P	W	200W		Gap Height	Gh	mm	8.00
Test Spectrum Bandwidth	50-600	12 dB/Oct			Maximum Linear Excursion	X_{max}	mm	6.07
					Ferrofluid Type	FF	N/A	
					Transducer Size	-	10 inch	
					Transducer Mass	-	Kg	3.40

1 - Piston Band Sensitivity Tolerance

Frequency and Impedance Response:



F088-0713A