G125-8 300mm (12 in)
G135-8 380mm (15 in)

MUSICAL INSTRUMENT LOUDSPEAKERS

FEATURES:

- 200 watts continuous pink noise power capacity
- 76 mm (3 in) aluminum ribbon voice coils
- High sensitivity: G125-8, 102 dB, 1 W, 1 m
  G135-8, 104 dB, 1 W, 1 m
- Wide, extended frequency response
- Overdrive sound character

JBL knows that your loudspeaker is part of your instrument. The new JBL G Series loudspeakers are the latest expression of our commitment to provide you with the tools you need to handcraft your sound and expand your musical palette. Three years of product development, during which a select group of JBL engineers, product specialists and our Artist Advisory Board evaluated every major guitar loudspeaker and amplifier type, resulted in the best and most versatile musical instrument loudspeakers available.

The G Series speakers combine unparalleled tone, power and sensitivity at overdriven amp settings together with lyric sweetness for clean settings. Your amp can now have both a clean or overdrive sound with JBL quality, reliability and power handling.

The G Series speakers feature a perfect balance of strength and delicacy while maintaining the well-loved traditional JBL virtues of high power handling and bullet-proof reliability. They have large 3" diameter voice coils formed of edgewound aluminum ribbon wire with special high-temperature adhesives to transfer all the power from your amp with maximum efficiency. A deep frame and cone with a paper dome provide the G Series' special response and sound character. JBL's unique SFG (Symmetrical Field Geometry) magnet structure eliminates unwanted types of distortion and lets the true sound of your instrument through. The rugged cast aluminum frame of the G Series loudspeakers provides heatsink action far better than inexpensive stamped-frame speakers and the G Series' 200-watt power capacity lets you crank it up set after set without worry. The rugged and versatile design of the G Series loudspeakers make them ideal for utility use in sound reinforcement applications as well.

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G125-8, G135-8

The G125-8 and the G135-8 musical instrument loudspeakers have standard mounting dimensions and will directly replace conventional 12" and 15" loudspeakers in any type of existing enclosure without hassle or special adaptors.

The G135-8 makes an outstanding lead, pedal steel, keyboard, or bass guitar loudspeaker and will make just about any existing amp enclosure sound better. In vented enclosures, the G135-8 gives the drive and punch bass players favor. For use with rhythm guitar, keyboards or vocals, the G125-8 can be used in a tuned enclosure to add solid low-end punch to the sound.

ENCLOSURES

The G125-8 lead guitar loudspeaker is designed to directly replace any 12" speaker, such as those in open-back amps, and will give outstanding performance for lead guitar. Instruments such as rhythm guitar and keyboards and vocal reinforcement applications, however, require more bass than lead guitar; for these applications, a tuned enclosure of from 1 to 2 cubic feet will provide uniform frequency response down to the lower pitches of the vocal range. The enclosure size that produces the most uniform response is 1.5 cubic feet, with a port of 12.6 square inches (4" diameter hole), tuning the enclosure to 80 Hz. Tuning information for other enclosure sizes is given in the enclosure tuning table.

The G135-8 will provide deepest and most uniform bass response in enclosures between 3 and 8 cubic feet. A 6 cubic foot enclosure, using a ducted port of 19.6 square inches (5" diameter) and 2" length to tune to 40 Hz, will provide the best overall performance in the lowest octave. Tuning information for other enclosure sizes is given in the enclosure tuning table.

ENCLOSURE TUNING TABLE:

ENCLOSURE VOLUME		TUNING FREQUENCY		PORT AREA		PORT DIAMETER		DUCT LENGTH	
liters	cubic feet	G125-8	G135-8	square cm	square in.	mm	in.	mm	in.
28	1.0	80	–	50	7.7	76	3.0	–	–
35	1.25	80	–	65	10.1	91	3.6	–	–
42	*1.5	80	–	88	13.6	107	4.2	–	–
50	1.75	80	–	110	17.7	119	4.7	–	–
57	2.0	80	–	140	22.2	135	5.3	–	–
71	2.5	80	–	210	32.7	165	6.5	–	–
85	3.0	–	40	81	12.6	102	4.0	102	4.0
85	*3.0	80	–	292	45.2	193	7.6	–	–
113	4.0	–	40	81	12.6	102	4.0	58	2.3
120	4.25	–	40	81	12.6	102	4.0	51	2.0
127	4.5	–	40	81	12.6	102	4.0	43	1.7
135	4.75	–	40	81	12.6	102	4.0	38	1.5
142	5.0	–	40	126	19.6	127	5.0	74	2.9
149	5.25	–	40	126	19.6	127	5.0	66	2.6
156	5.5	–	40	126	19.6	127	5.0	58	2.3
163	5.75	–	40	126	19.6	127	5.0	51	2.0
170	*6.0	–	40	126	19.6	127	5.0	46	1.8
170	*6.0	80	–	583	90.4	272	10.7	–	–
177	6.25	–	40	126	19.6	127	5.0	41	1.6
184	6.5	–	40	126	19.6	127	5.0	36	1.4
191	6.75	–	40	126	19.6	127	5.0	31	1.2
198	7.0	–	40	126	19.6	127	5.0	25	1.0
205	7.25	–	40	126	19.6	127	5.0	23	0.9
212	7.5	–	40	126	19.6	127	5.0	–	–
219	7.75	–	40	135	21.0	132	5.2	–	–
227	8.0	–	40	143	22.2	135	5.3	–	–

* The asterisks denote enclosure sizes that are optimum for full frequency range applications. Tuning 1.5 and 3 cubic foot enclosures to 80 Hz gives the best low frequency response for one or two G125-8's respectively, and four G125-8's will provide extremely high SPL (sound pressure level) capability when used in a column enclosure of 6 cubic feet. The second 6 cubic foot, 40 Hz tuning shown, is optimum for the G135-8. Typical double-speaker enclosures with 15" cutouts will benefit from installation of a pair of G135-8's, but, as with any loudspeaker model, avoid using two different models within the same enclosure.

SPECIFICATIONS:

	G135-8	G125-8
Nominal Diameter:	380 mm (15 in)	300 mm (12 in)
Nominal Impedance:	8 ohms	8 ohms
Power Capacity AES shaped noise:	200 W	200 W
Sensitivity 500 Hz–2.5 kHz:	102 dB SPL	104 dB SPL
Frequency Range:	60–7000 Hz	50–6000 Hz
Voice Coil Diameter:	76 mm (3 in)	76 mm (3 in)
Voice Coil Material:	aluminum ribbon	aluminum ribbon
Magnetic Assembly Weight:	4.8 kg (10.5 lbs)	4.8 kg (10.5 lbs)
Flux Density:	1.0 tesla	1.0 tesla
Frame Material:	diecast aluminum	diecast aluminum
Baffle Cutout Diameter front or rear mount:	281 mm (11-1/16 in)	351 mm (13-13/16 in)
Depth:	137 mm (5-3/8 in)	162 mm (6-3/8 in)
Net Weight:	5.5 kg (12 lbs)	5.9 kg (13 lbs)
Thiele-Small Parameters:		
f_s (Hz)	65	45
R_e (ohms):	5.2	5.2
Q_{ts}:	0.32	0.36
Q_{ms}:	5.5	5.5
Q_{es}:	0.34	0.38
V_{as}:	71 l (2.5 ft^3)	235 l (8.3 ft^3)
S_D:	0.053 m^2 (82 in^2)	0.089 m^2 (138 in^2)
X_{max}:	2.5 mm (0.1 in)	2.5 mm (0.1 in)
V_D:	133 cm^3 (8 in^3)	233 cm^3 (13.6 in^3)
L_e (mH):	0.5	0.5
η_o (half-space reference efficiency):	5.5%	5.5%

JBL continually engages in research related to product improvement. New materials, production methods, and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

JBL Professional, 8500 Balboa Boulevard, P.O. Box 2200, Northridge, California 91329 U.S.A.