

CORAL

NATURALLY BEAUTIFUL

Full range speaker units.

FLAT MARK-II SERIES

FLAT-10II / 8II / 6II / 5II



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Archiv Michael-Otto*

Full range speaker units. FLAT MARK-II SERIES

Models FLAT-5II and FLAT-6II are the result of a wealth of experience and many years of fundamental research by CORAL—a specialized maker of acoustic equipment. The excellent acoustic performance of CORAL speakers have been highly appreciated by open-comparison audition with competitive brands. Responding to public encouragement and user demands, the CORAL engineering staff developed the FLAT-8II and FLAT-10II through their superior technical know-how.

1

A speaker's acoustic performance is greatly effected by vibration characteristics of its system component. Among all the components, the paper cone plays a particularly important role. The FLAT II Series employ paper cones made of pulp mixed with chemical fibers, specially molded by a most advanced molding machine. Combined with its large diameter, these excellent-quality paper cones deliver rich, full-bodied bass and distortion-free, sonorous midrange realism.

2

Copper-clad aluminum wire, employed with good results in the CORAL Beta Series, has made it possible to use long voice coils, thus reducing amplitude distortion, and definitely eliminating cross-modulation distortion.

3

Thanks to the use of a powerful ceramic magnet, the FLAT II Series boast high-efficient, outstanding transient characteristics.

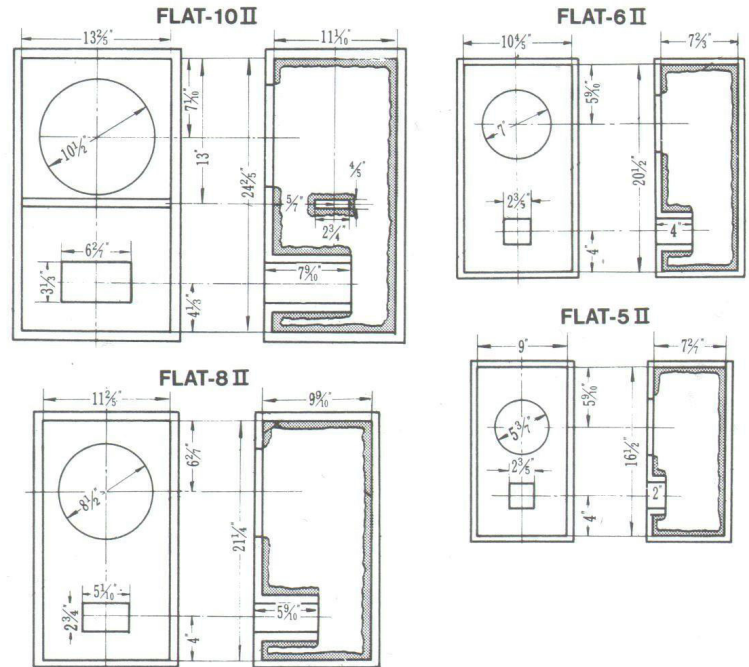
4

The diaphragm employs a dome made of hard-but-lightweight alloy improving directional characteristics in the extrahigh-frequency range, offering excellent tonal rendition which never "fatigues" the listener over long periods.

5

The conventional method of mounting a speaker on a baffle results in generation of cavity resonance, because of the depth of holes on the baffle, which in turn causes dips and peaks in midrange reproduction. To solve this problem, a flat mounting method based on using a prominent frame has been adopted for the FLAT II Series. Consequently, distortionless reproduction is achievable over the area from midrange to high frequency.

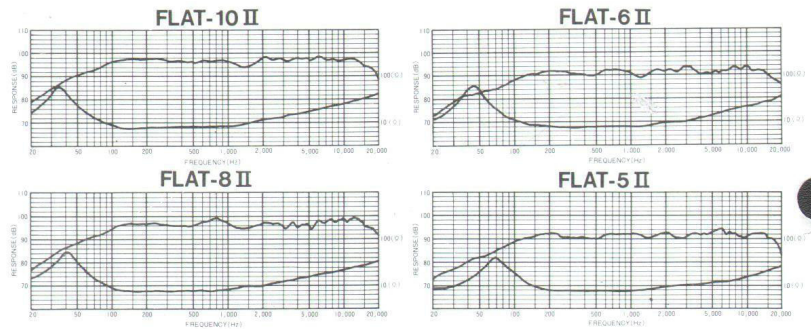
CABINET DIMENSIONS



Apply acoustic material (glass wool or felt) all over the interior in wavy form. Use Saran net which is small in acoustic absorptivity. Install the Saran net tightly to prevent its vibrating from sound pressure.

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FREQUENCY RESPONSE & IMPEDANCE



SPECIFICATIONS	FLAT-10II	FLAT-8II	FLAT-6II	FLAT-5II
Nominal size	10"	8"	6-1/2"	5"
Impedance	8Ω	8Ω	8Ω	8Ω
Min. resonance frequency (fo)	35 Hz	40 Hz	45 Hz	70 Hz
Power input	55W	35W	30W	20W
Sensitivity	96 dB/W-m	95 dB/W-m	92 dB/W-m	91 dB/W-m
Frequency response	fo ~ 20,000 Hz	fo ~ 20,000 Hz	fo ~ 20,000 Hz	fo ~ 18,000 Hz
Magnetic flux density	12,000 gauss	12,000 gauss	11,000 gauss	11,000 gauss
Qo	0.5 (35 Hz)	0.5 (40 Hz)	0.52 (45 Hz)	0.55 (70 Hz)
Equivalent mass	0.62 oz	0.36 oz	0.23 oz	0.11 oz
Diameter	11-9/10"	9-3/4"	8"	6-1/3"
Depth	4-1/8"	3-7/10"	2-9/10"	2-1/6"
Dimension of baffle opening	8-9/10" (10-2/5")	7-1/10" (8-1/2")	5-3/5" (7")	4-1/4" (5-1/2")
Mounting hole dimension	9-1/2" (11")	7-3/5" (11-4/5")	6-1/10" (7-2/5")	4-7/10" (5-4/5")
Magnet weight	750g	580g	400g	250g
Total weight	2.8kg	2kg	1.4kg	750g

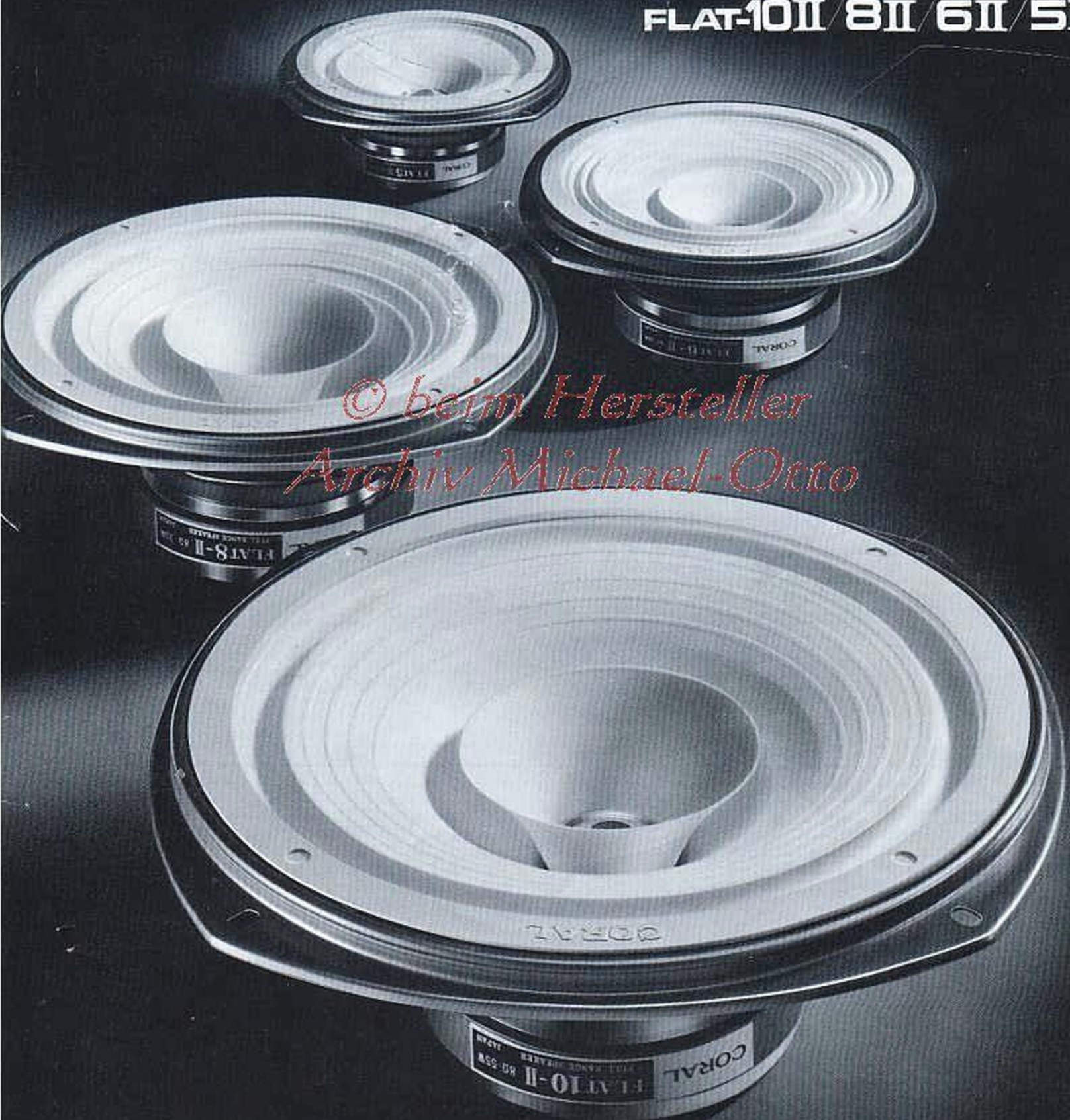
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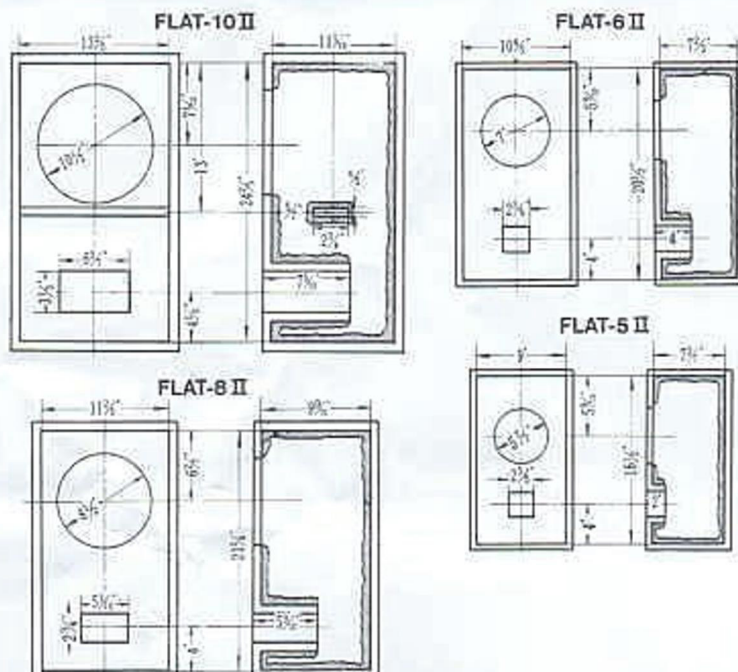
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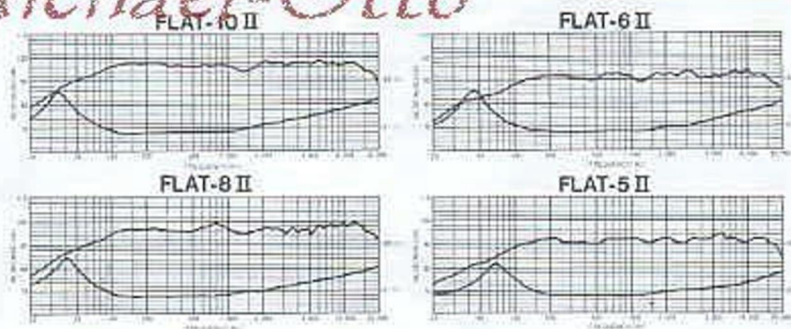
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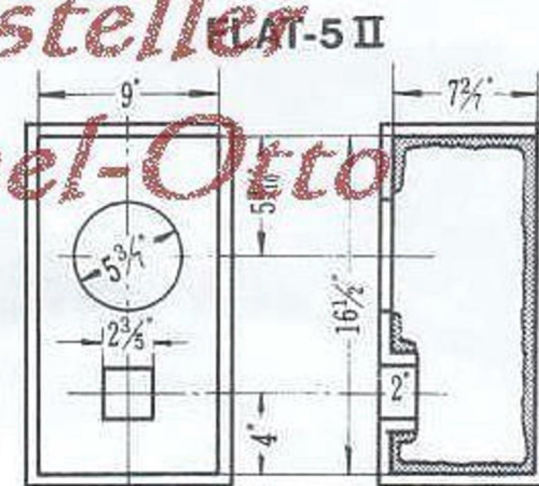
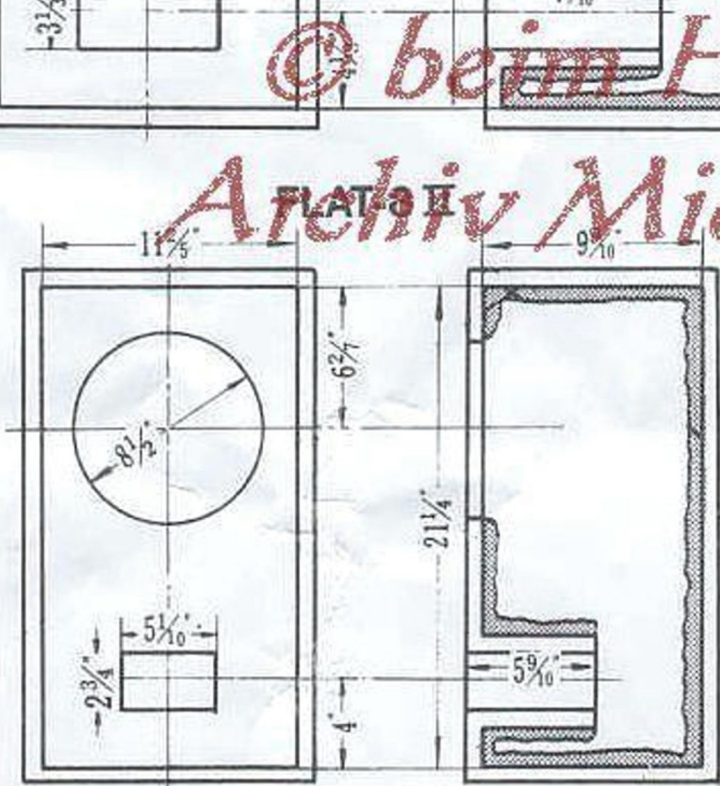
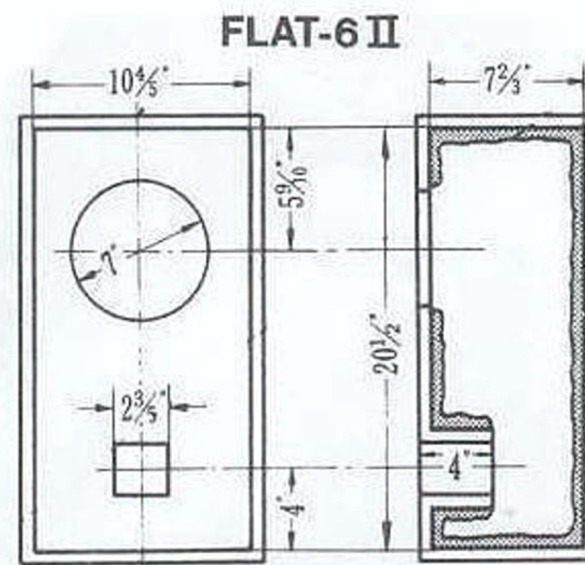
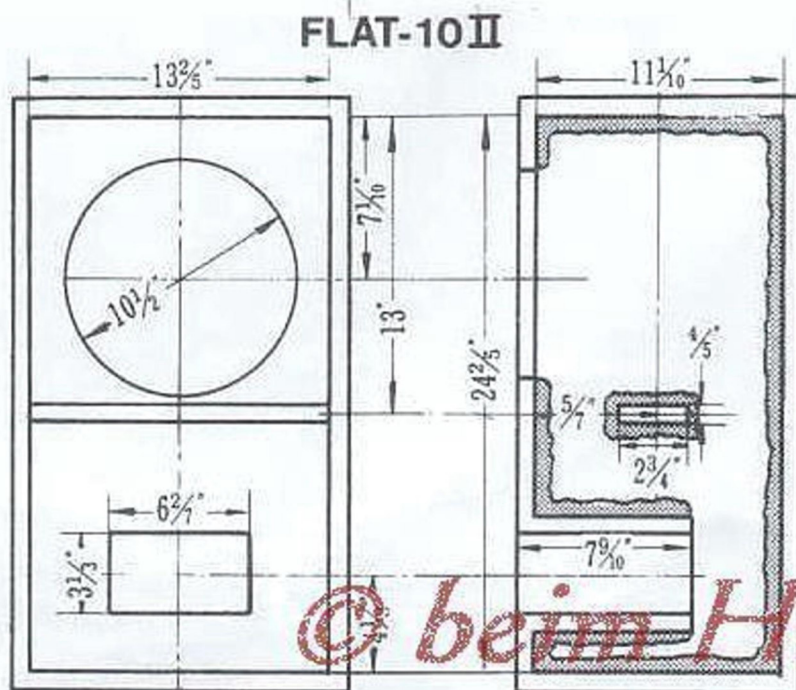


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Impedance	8Ω	8Ω	8Ω	8Ω
Min. resonance frequency (fo)	35 Hz	40 Hz	45 Hz	70 Hz
Power input	55W	35W	30W	20W
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Frequency response	fo ~ 20,000 Hz	fo ~ 20,000 Hz	fo ~ 20,000 Hz	fo ~ 18,000 Hz
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Equivalent mass	0.62 oz	0.36 oz	0.23 oz	0.11 oz
Diameter	11-9/10"	9-3/4"	8"	6-1/3"
Depth	4-1/8"	3-7/10"	2-9/10"	2-1/6"
Dimension of baffle opening	8-9/10" (10-2/5")	7-1/10" (8-1/2")	5-3/5" (7")	4-1/4" (5-1/2")
Mounting hole dimension	9-1/2" (11")	7-3/5" (11-4/5")	6-1/10" (7-2/5")	4-7/10" (5-4/5")
Magnet weight	750g	580g	400g	250g
Total weight	2.8kg	2kg	1.4kg	750g



CORAL CORPORATION
11-6 Shibashimo, Kawaguchi-shi, Saitama-ken, Japan

Printed in Japan



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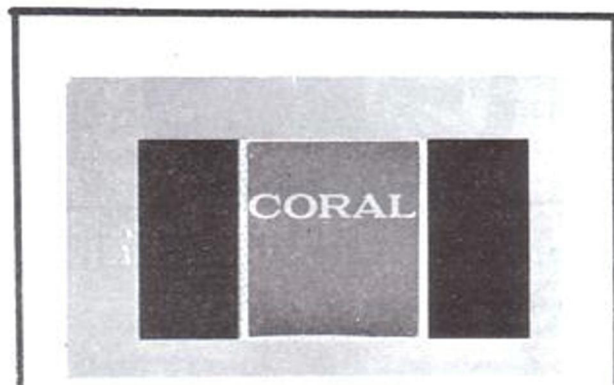
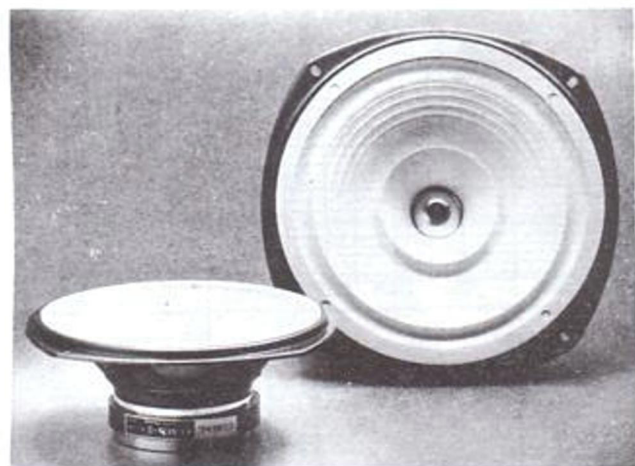
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12cm (5") FULL RANGE SPEAKER

FLAT-5II

• Impedance: 8Ω • Program source input: 20W
• Frequency response: fo~18,000Hz • Lowest resonance frequency: 70Hz • Output sound pressure level: 91dB • Magnetic flux density: 11,000 gauss • Weight: 0.75kg (1.65 lbs)

FLAT-5 II

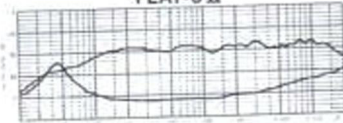


16cm (6-1/2") FULL RANGE SPEAKER

FLAT-6II

• Impedance: 8Ω • Program source input: 30W
• Frequency response: fo~20,000Hz • Lowest resonance frequency: 45Hz • Output sound pressure level: 92dB • Magnetic flux density: 11,000 gauss • Weight: 1.4kg (3.08 lbs)

FLAT-6 II

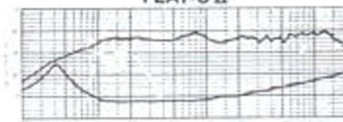


20cm (8") FULL RANGE SPEAKER

FLAT-8II

• Impedance: 8Ω • Program source input: 35W
• Frequency response: fo~20,000Hz • Lowest resonance frequency: 40Hz • Output sound pressure level: 95dB • Magnetic flux density: 12,000 gauss • Weight: 2kg (4.4 lbs)

FLAT-8 II



25cm (10") FULL RANGE SPEAKER

FLAT-10II

• Impedance: 8Ω • Program source input: 55W
• Frequency response: fo~20,000Hz • Lowest resonance frequency: 35Hz • Output sound pressure level: 96dB • Magnetic flux density: 12,000 gauss • Weight: 2.8kg (6.16 lbs)

FLAT-10 II

