

KA-7002 / Direct-Coupling Stereo Amplifier
 by **KENWOOD**

KENWOOD KA-7002

196 WATTS (IHF) • STEREO AMPLIFIER

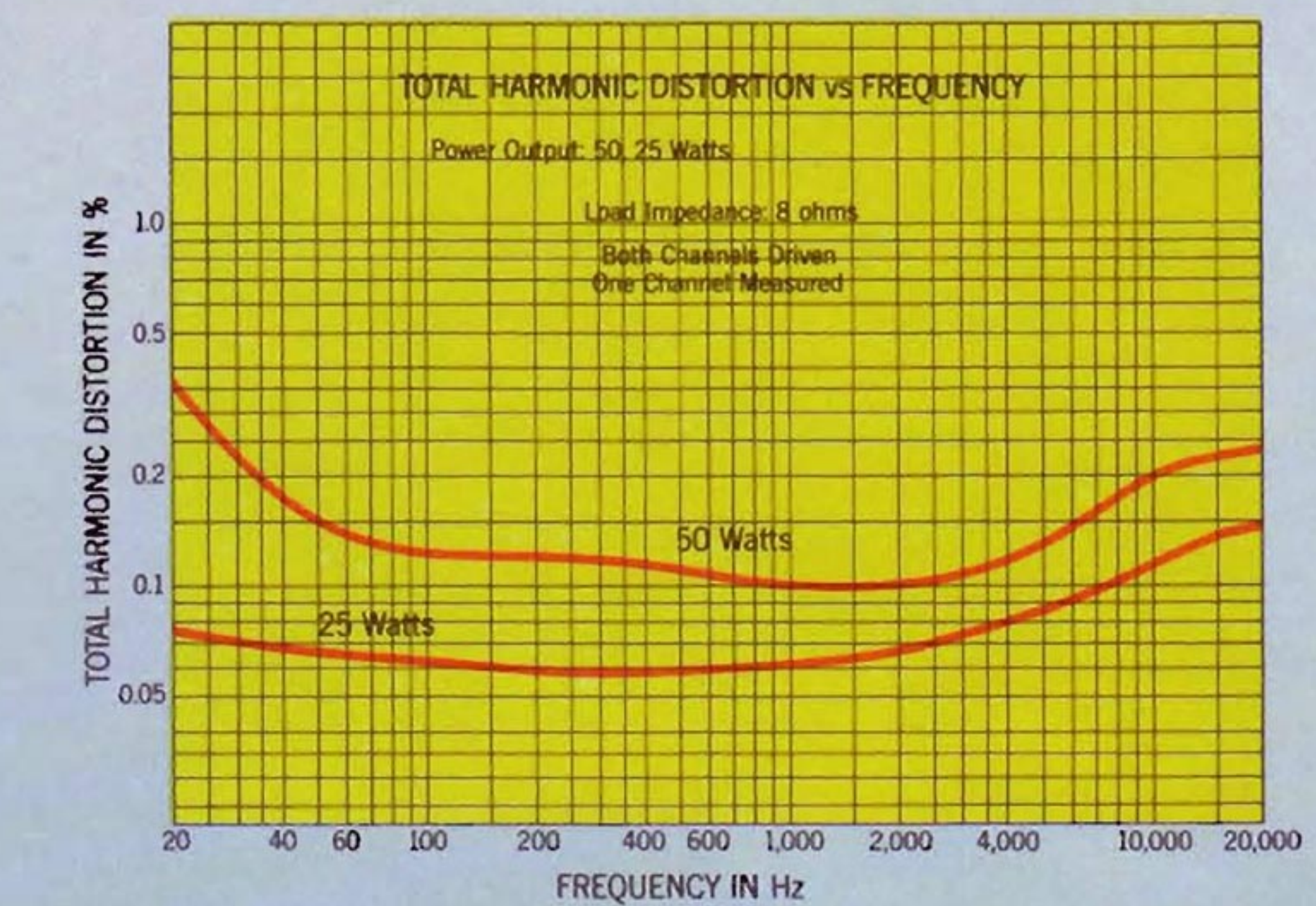
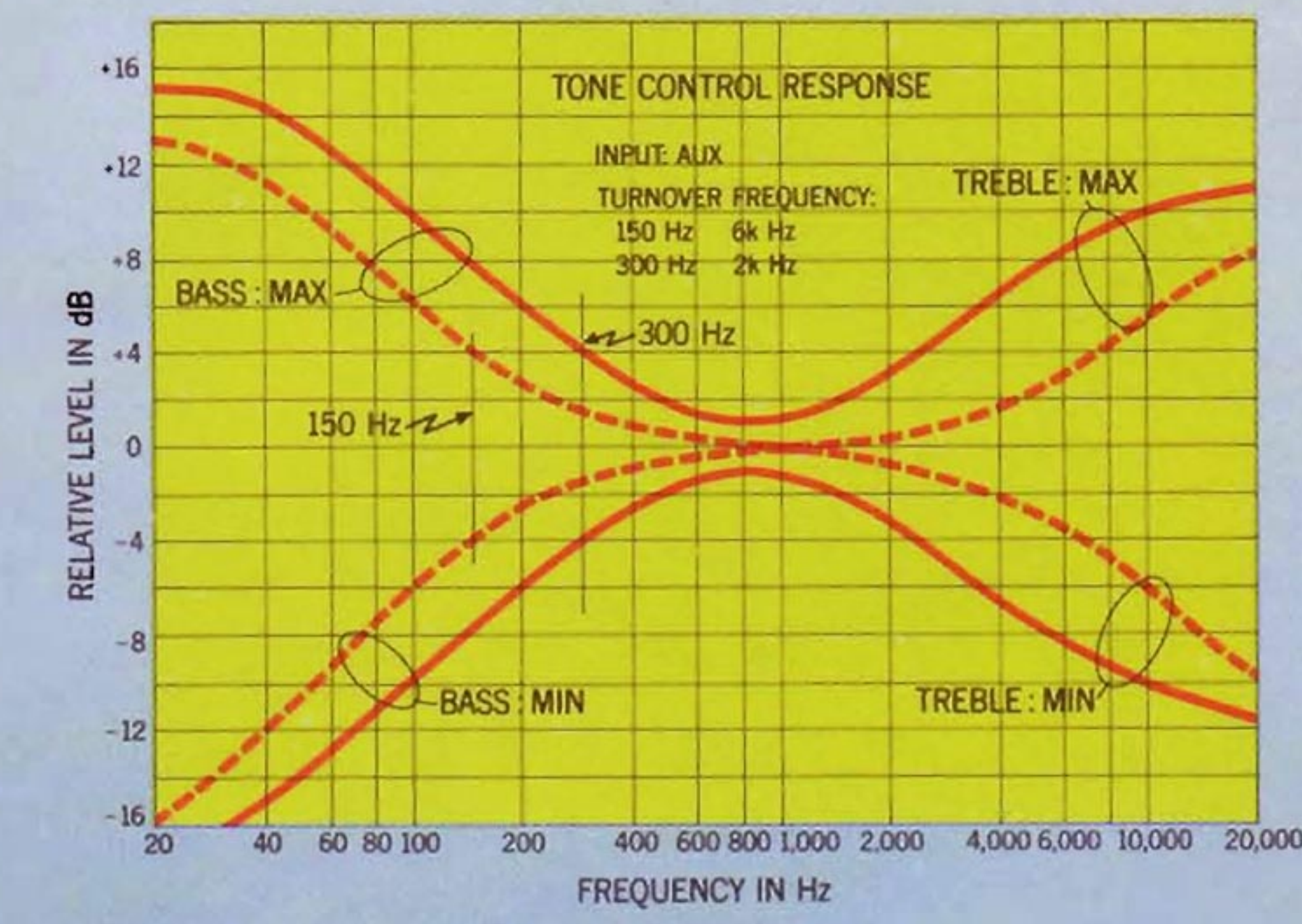
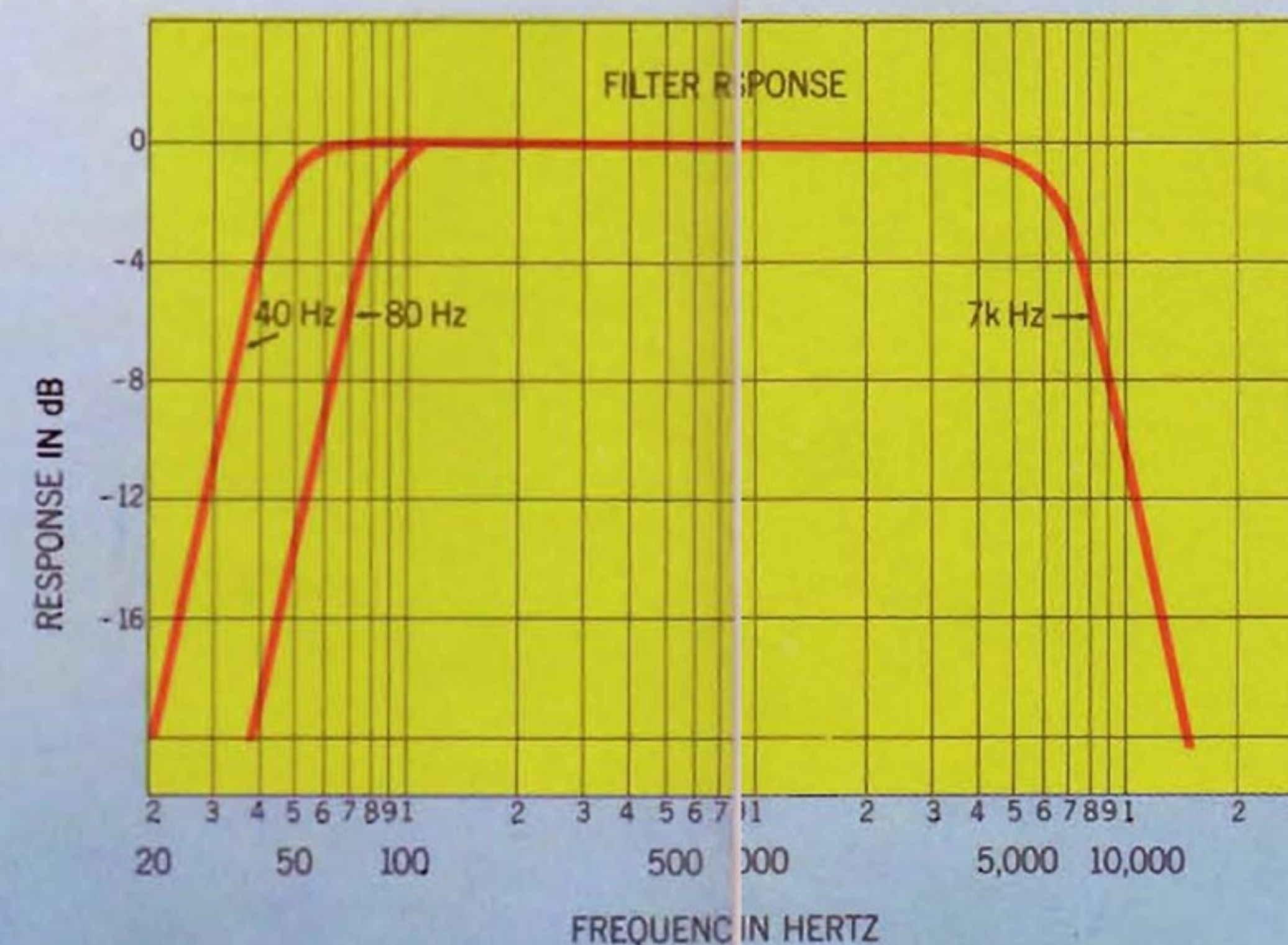
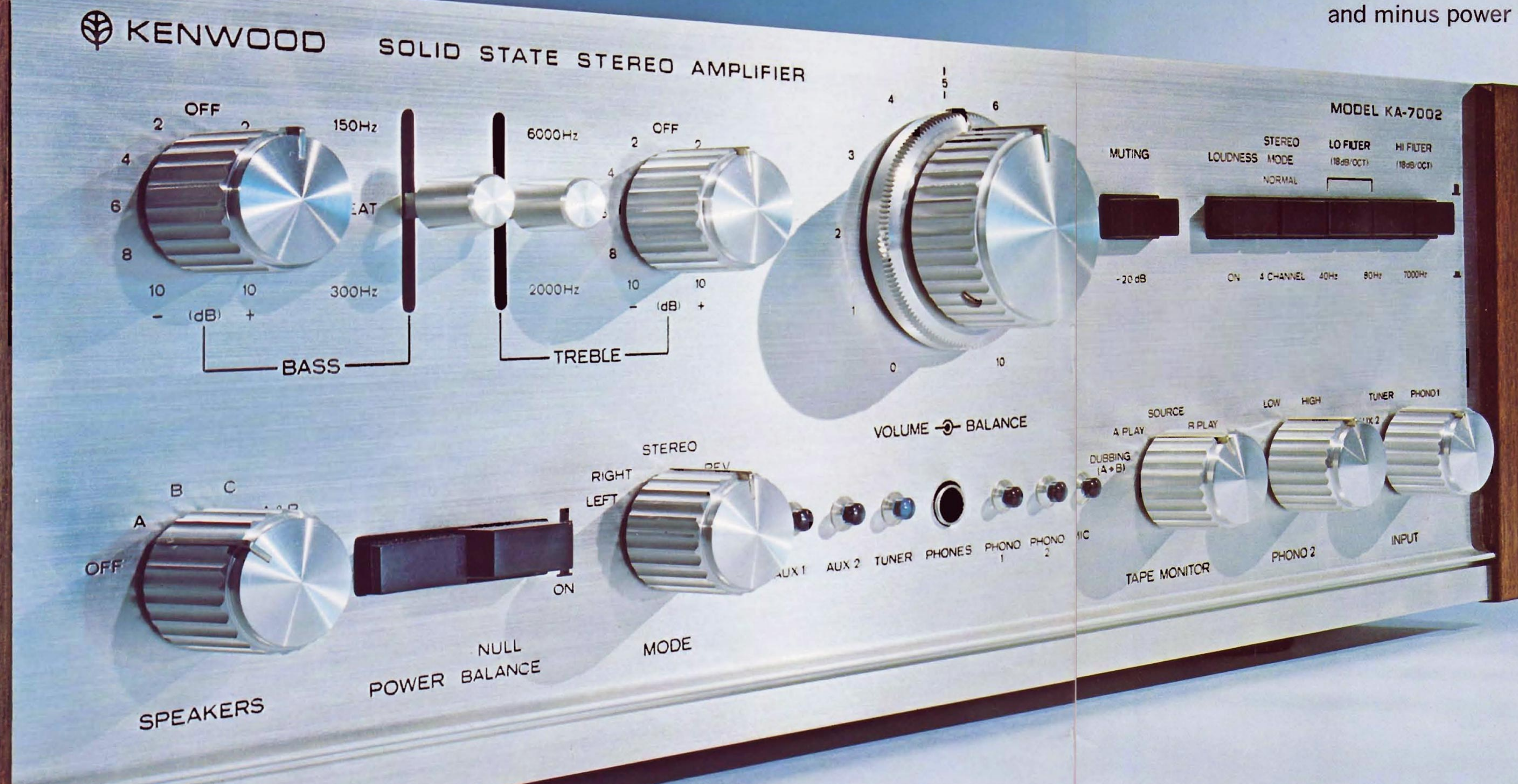
KENWOOD's new KA-7002 Stereo Amplifier incorporates the most sophisticated advances in stereo technology... two differential amplifiers for first and pre-drive stages... output coupling capacitorless complementary-symmetry driver stages... dual-balanced plus and minus power supplies... and direct-coupling circuitry from input to speakers.

Direct coupling, through the elimination of capacitors in the final stage of the circuit, improves base response both in amplitude and lack of distortion and thereby provides purer, richer, lower frequency response plus... freedom from intermodulation distortion, phase shift over the entire audio range, roll-off at very low frequencies... minimum crossover distortion even under low output level... high damping factor down through extremely low frequencies.

The KA-7002 has provisions for an incredibly extensive stereo system, such as... four-channel stereo, two phonos, two tape decks, two auxiliaries, mike, tuner, three sets of stereo speakers, separate preamplifier and main amplifier.

In keeping with KENWOOD's reputation for dependability and reliability, the KA-7002 offers three special protection circuits... high sensitive protection amplifier and cutout relay for main amplifier stages... independent stabilized power supply for differential amplifier... DC unbalanced detector circuit and relay for protection of speaker systems.

It is apparent that the KENWOOD KA-7002 is a truly magnificent instrument capable of delivering the ultimate in stereo enjoyment.





SPECIAL FEATURES:

1. Complete Direct-coupled Circuitry including two Differential Amplifier Stages and Output Coupling Capacitorless Power Amplifier
2. Exclusive Low Level Phono Input (0.06 mV) for moving coil type or low level output cartridges
3. 3 sets of Stereo Speaker Terminals and Front Panel Speaker Selector Switch (OFF, A, B, C, A&B, A&C)
4. 2 pairs of Magnetic Phono Input Jacks for 2 sets of record players
5. Phono 1 Input Impedance Selector Switch
6. Tape Monitor and Dubbing Switch for 2 tape decks
7. Separate Preamplifier Outputs and Main Amplifier Inputs
8. 2 dB Step-type Tone Control Switches for best sound
9. Null Balance Control for easy balancing
10. 4-channel Input and Output Terminals associated with volume control
11. 20 dB Muting Switch for temporary quiet
12. (U. S. Pat.) Exclusive Power Transistor Protection Circuit
13. 18 dB/oct cut-off Low and High Filters
14. Front Panel Stereo Headphone Jack
15. Blue Light Indicators for Input Selector Switch
16. 4 sets of Convenience Power Outlets

SPECIFICATIONS:

POWER OUTPUT: 100 watts RMS continuous power, 50 watts per channel with both channels operating simultaneously with 8 ohms load at any frequency from 20-20k Hz

68 watts per channel at 4 ohms load (1k Hz)
55 watts per channel at 8 ohms load (1k Hz)
196 watts (IHF) total music power at 4 ohms load
170 watts (IHF) total music power at 8 ohms load

HARMONIC DISTORTION: Less than 0.5% at rated output from 20-20k Hz

INTERMODULATION DISTORTION (60 Hz & 7k Hz, 4:1):
Less than 0.3% at rated output or at any level of less than rated output
Less than 0.1% at -3 dB rated output

FREQUENCY RESPONSE: High Level Input: 20-50k Hz \pm 1 dB

SENSITIVITY (for rated output at 8 ohms load):

PHONO 1: 2.5 mV
MIC: 2.5 mV
TAPE PLAY A, B: 200 mV
PHONO 2: 2.5 mV, 0.06 mV (Switchable)
AUX 1/2: 200 mV
MAIN AMP INPUT: 1 V

INPUT IMPEDANCE (at 1k Hz):

PHONO 1 (2.5 mV): 30k ohms, 50k ohms (Switchable)
PHONO 2 (2.5 mV): 50k ohms
MIC: 50k ohms
MAIN AMP INPUT: 50k ohms
PHONO 2 (0.06 mV): 200 ohms
AUX 1/2, TUNER, TAPE PLAY A/B: 100k ohms

SIGNAL-TO-NOISE RATIO (below rated output):

PHONO 1 (2.5 mV): 65 dB
PHONO 2 (0.06 mV): 45 dB
AUX, TUNER, TAPE PLAY: 77 dB
Noise at Min. Vol. Control: 0.5 mV at 8 ohms, 0.00031 milliwatts

MAXIMUM INPUT SIGNAL: 310 mV (P-P 1k Hz) at PHONO 1 input

OUTPUT IMPEDANCE (at Speaker Terminal): 0.25 ohms from 50-10k Hz

DAMPING FACTOR: 90 at 16 ohms load; 45 at 8 ohms load

LOW FILTER (for rumble): 40 Hz cutoff, 18 dB per octave
80 Hz cutoff, 18 dB per octave

HIGH FILTER (for scratch): 7k Hz cutoff, 18 dB per octave

BASS CONTROL: \pm 10 dB at 100 Hz with 2 dB step switch
(TONE CONTROL SWITCH at 300 Hz)

TREBLE CONTROL: \pm 10 dB at 10k Hz with 2 dB step switch
(TONE CONTROL SWITCH at 2k Hz)

TONE CONTROL SWITCH: BASS: 150 Hz, 300 Hz, DEFEAT
TREBLE: 2k Hz, 6k Hz, DEFEAT

INPUTS: Pair of Phono 1, Phono 2, AUX 1, AUX 2, Tuner, Tape Play A, Tape Play B, MIC, 4-channel, Main Amp

OUTPUTS: 3 pairs of Stereo Speaker Outputs (4 to 16 ohms), Preamp Outputs, Headphone Jack, Low Level MONO Output, Tape Recording Outputs A&B, DIN Standard Tape Record/Play Connector A&B, Switched & Unswitched AC Outlets, 4-channel Output

CONTROLS: Phono 2 Level Switch, Input Selector Switch, Tape Monitor Switch, Mode Switch, Tone Control Switch, Speaker Selector Switch, Volume Control, Balance Control, Bass Control Switch, Treble Control Switch, Muting Switch (-20 dB), Loudness Contour Switch, Low Filter Switch, High Filter Switch, Stereo Mode Switch, Null Balance Switch, Phono 1 Impedance Selector Switch, Pre-Main Separate Switch

POWER CONSUMPTION: AC 110-120/220-240V, 50/60 Hz
15 watts quiescent, 275 watts at full power

DIMENSIONS: 16 $\frac{5}{16}$ "W, 5 $\frac{5}{32}$ "H, 11 $\frac{1}{32}$ "D

SHIPPING WEIGHT: 22 lbs.

TWO-YEAR WARRANTY ON BOTH PARTS AND LABOR

KENWOOD is proud of the quality and workmanship of its amplifiers. These units are guaranteed against all defects in material and workmanship. They have been properly designed, carefully tested and inspected before they are shipped to you. If properly installed and operated in accordance with your instruction manual, they should give optimum reliable performance.

The warranty does not apply to units which have been subjected to misuse, abuse, neglect, accident or improper installation, nor extend to units which have been repaired or altered by unauthorized agencies, nor to cases where the serial number has been removed, defaced, or altered.

the sound approach to quality

 **KENWOOD**

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