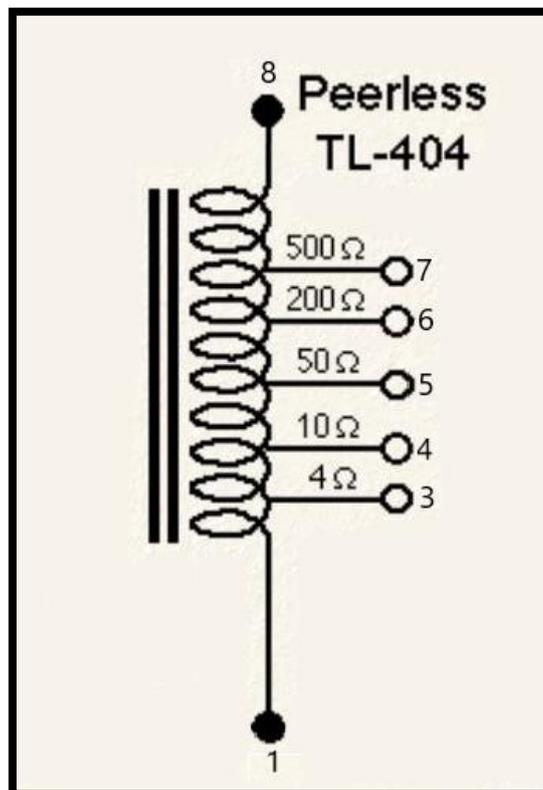




TL 404

Designed in 1946 by Ercel Harrison for MGM's recording studios.

Hookup



#1	Ground	black
#3	4 Ohm	orange
#4	10 Ohm	yellow
#5	50 Ohm	white
#6	200 Ohm	green
#7	500 Ohm	red
#8	5000 Ohm Anode/Plate	blue



Not all units have the four ohm tap.

PRI (1-8) dcr is approx 88 ohms

MOL 100 vrms @ 25 hz

MOL 125 vrms @ 30 hz

Nominal impedance ratios (with respect to the full winding) of the various taps are as follows:

terminal #3 is 1250:1

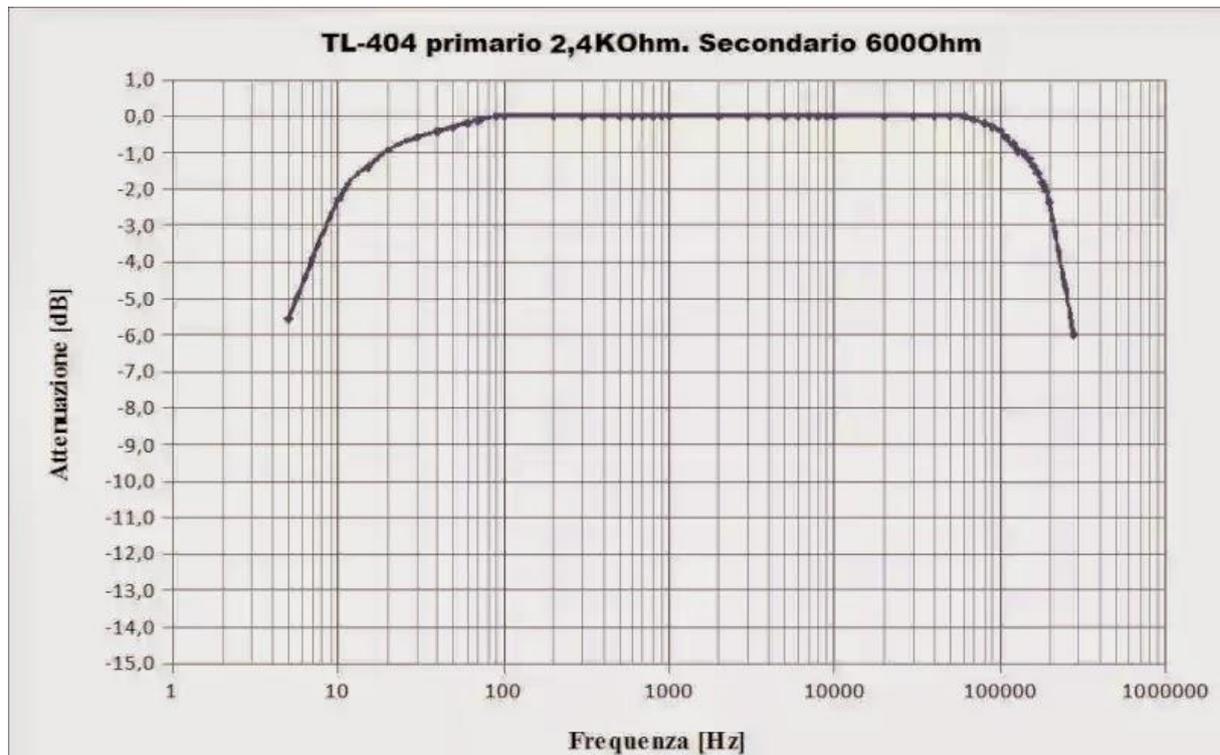
terminal #4 is 500:1

terminal #5 is 100:1

terminal #6 is 25:1

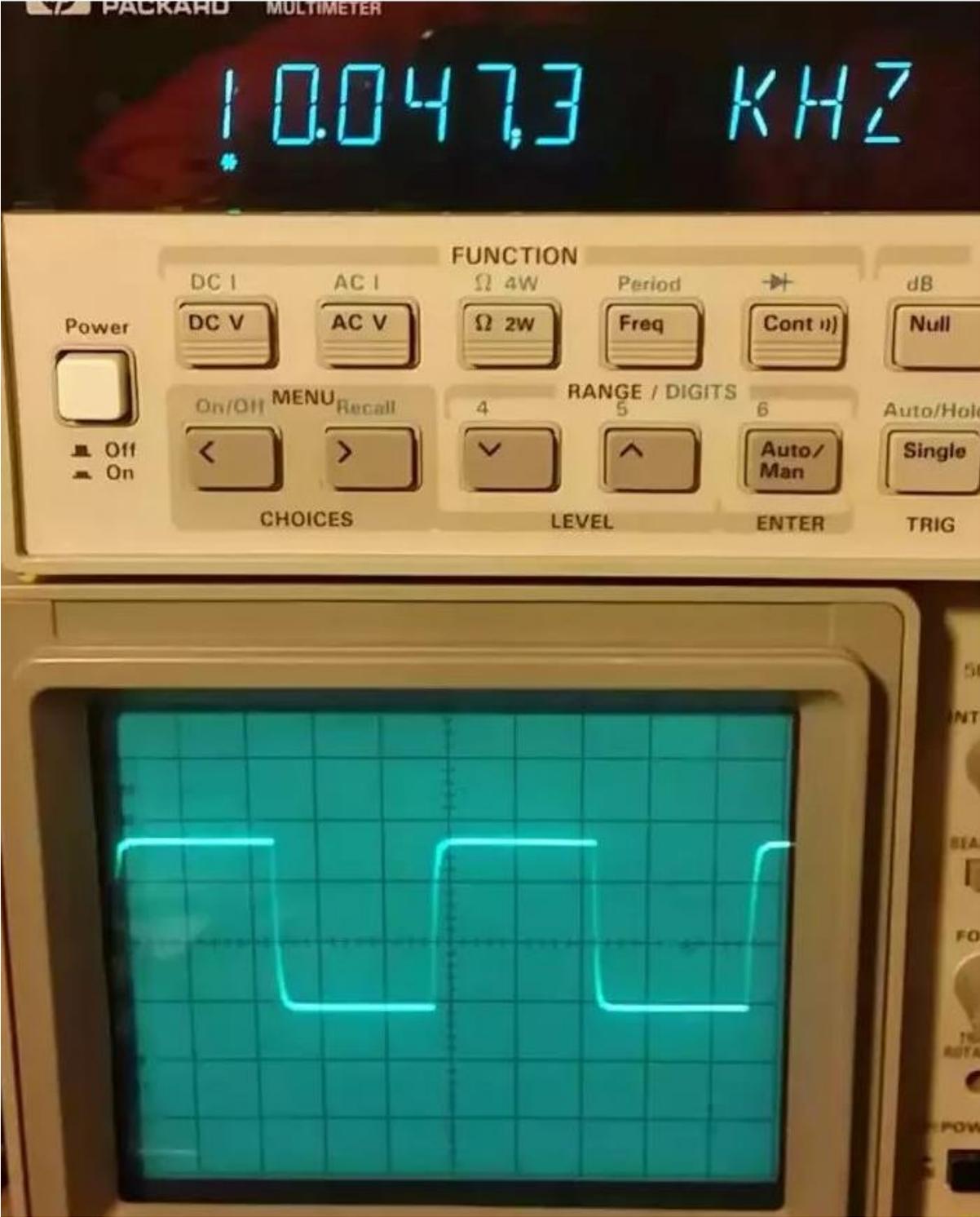
terminal #7 is 10:1

Frequency response:





Square wave test 10kHz:





Trivia:

Although the TL-404 was designed for MGM's recording studios, the intended specific application is unknown. Our assumption was that the higher-impedance taps were for headphones and the lowest-impedance taps (4 and 10 ohms) were intended for speakers, but that is just a guess. The TL-404 was designed in 1946 by Ercel Harrison (Peerless). One might assume an autoformer to be just a simple tapped coil on a core, but the TL-404 has a very complex winding geometry and is actually one of the more difficult coils to wind, according to Mike. Things like extensive interleaving, multiple sections in parallel, reverse windings and different gauges of wire can make it a tricky job!

