

OT19PP-DYN35

Dynaco ST35/SCA35 17.5W Output Transformers

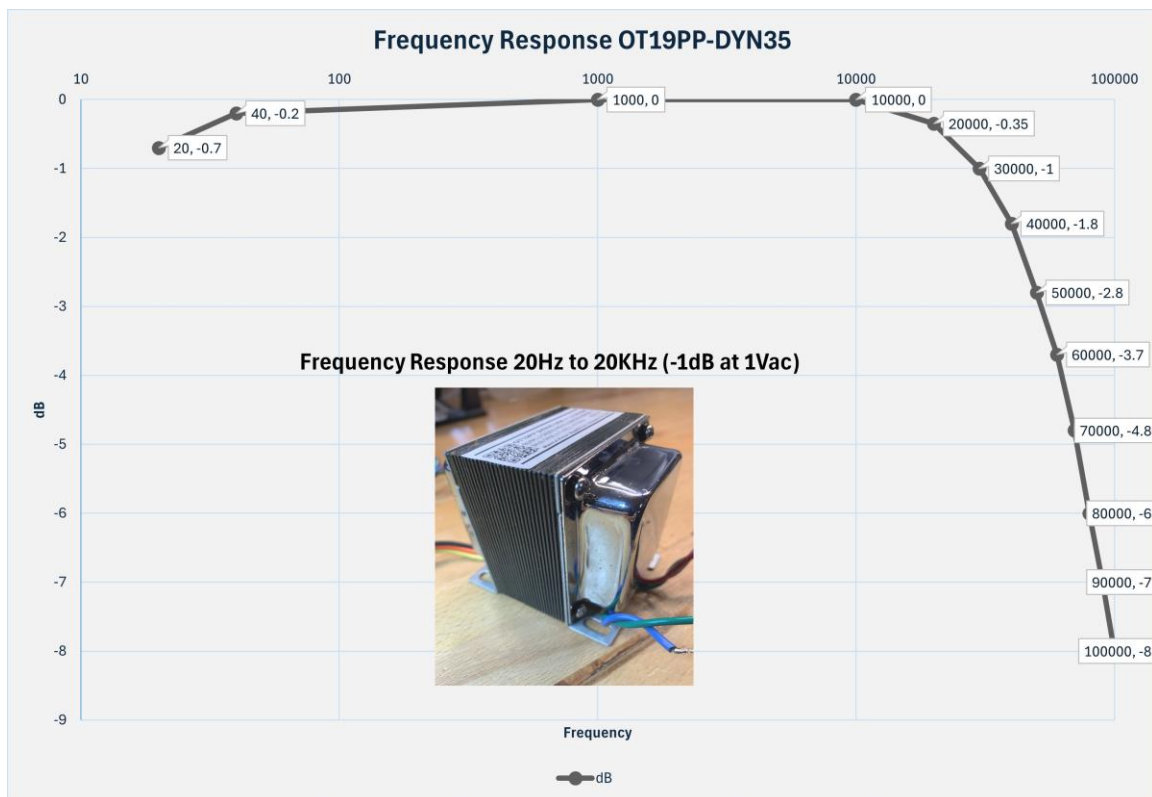
Specifications and Options

The **OT19PP-DYN35** was developed as a bobbin wound part using turns counts, wire sizes and winding interleaves based upon the original "Para-Coupled" Dynaco ST35/SCA35 **Z-565** Output Transformer. 2400 Turns input winding used as per original.

Twenty-two actual versions were developed and tested in-circuit by an experienced audio expert (AudioKarma [1](#)) at full power and compared for -

- >Frequency response & power (17.5W) across the frequency range
- >Wave form & Oscillations in the audio range- Square Wave checks.
- >Supersonics (20KHz+).

The final version (**#20**) chosen for production approaches the original vintage design in comparison on the same test stand with only a slight compromise in power from 20-24Hz and above 50KHz supersonics.



V20 Test Comments:

There was NO resonance in this transformer up to at least 111 kHz. With the notably improved supersonic response, 10 kHz square waves were very nice! Original Z-565 output transformer on same test stand 20Hz to 40KHz (-1dB) [1](#) Testing of per Dave Gillespie at

AudioKarma

OT19PP-DYN35 Power Output:

@20 Hz: 15.0 watts

@25Hz: 20.25 watts

@1 kHz: 21.4 watts

@20 KHZ : 21.62 watts

24 – 20KHz (-0.7dB) at 20W (15W @ 20Hz)

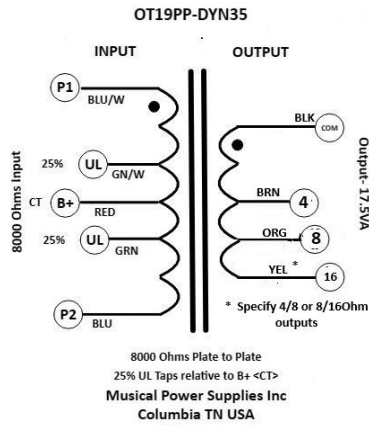
Benchmark- Original Z-565 Benchmark transformer on same test stand 19W power from 20Hz to 20KHz

Cover Options- STANDARD (No flange), SHALLOW (Chrome), BELL (Flange)

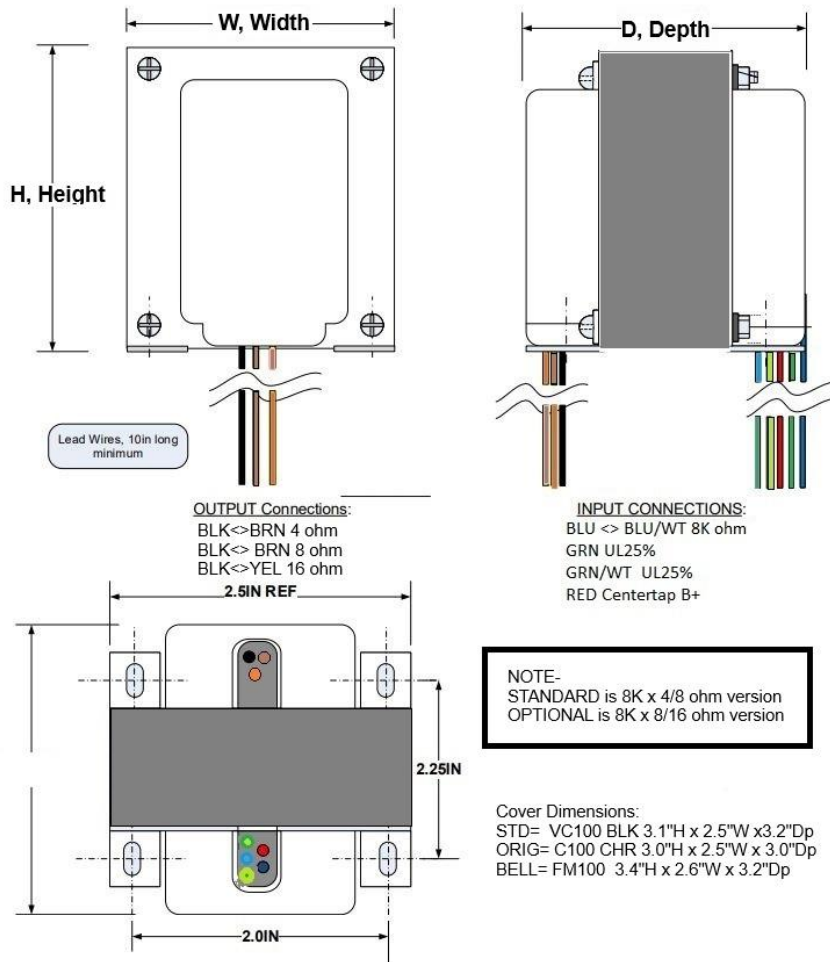


Covers with flanges add 0.1IN to total height and width.

Schematic:



Customer applications – Analog Ethos (Bell Covers) & RetroAudio (Shallow Covers)
Note- Musical Power Supplies PT330M-DYN35 Power Xfmr and PT330.2-DYN35 also shown.



PayPal Ordering:

1. Send an Email to matt@musicalpowersupplies.com with request details
2. Indicate **4/8** or **8/16** ohm version
3. Specify Cover style-
 - a. **STANDARD** VC100 Black – no flanges 3.2IN Depth
 - b. **SHALLOW** C100 – no flanges fits Dynakit and OEM Chassis 3.0IN Depth
 - i. **CHROME** (+\$5EA)
 - ii. **BLACK**
 - c. **BELLS** FM100 - has flanges and available in 3 finishes 3.2IN Depth
 - i. **ZINC** – paints readily
 - ii. **CHROME** (+ \$5 EA)
 - iii. **BLACK**

An ST35/SCA35 Power Transformer PT300.2-DYN35 to fit original 3IN high chassis is available. PT330M-DYN35 in an upright Horizontal cover is a great option if you have more space on your project chassis.