

4070-CFB-PP

Тороидальный широкополосный выходной пуш-пул трансформатор кроме прочего оборудован ультра-линейной фильтрацией 33%, специальной обмоткой для обратной связи 10%. Сочетанием местных обратных связей получается импульс низкого сопротивления, который создает мощность в 70Вт с пропускным диапазоном от 14 Гц до 200 кГц. С лампами 6550 и KT88 получаем высокое качество воспроизведения и низкое искажение с четко выраженными микродеталлями, без потерь. Основное сопротивление составляет около 4 кОма, выходное сопротивление 5 Ом. Смотри (*) для подробной информации.

(*) Книга: (*) Menno van der Veen: High-end Valve Amplifiers 2 New models and applications; Elektor; ISBN: 978-0-905705-90-3; раздел 8.

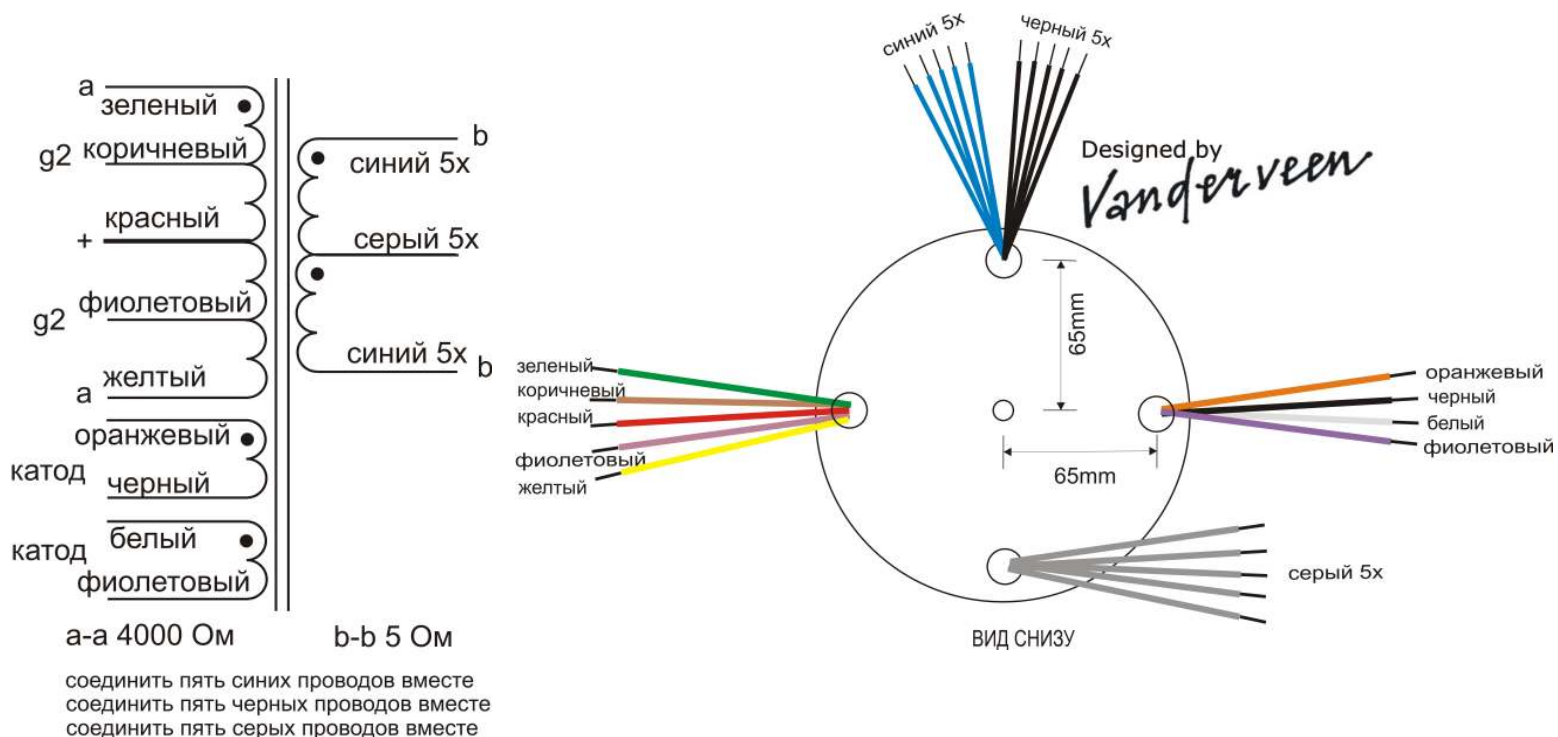
Трансформатор залитый в металлическом корпусе с полимерным покрытием черного цвета.

Размеры (диаметр x высота): 105мм x 55мм

Вес: 4,6 кг.

Цена: 289€

Технические данные:



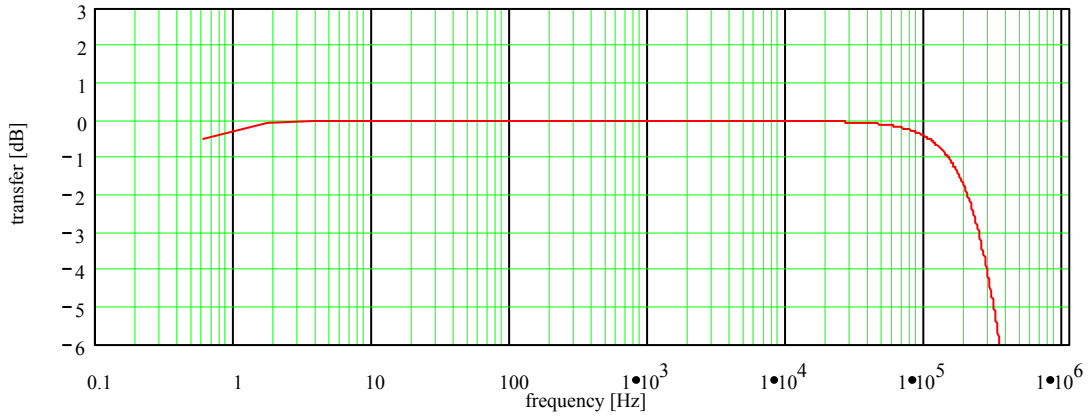
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

| | | | |
|---------------------------------------|---|------------------------------------|---------------|
| Type and Application | | VDV-4070-CFB. | |
| Primary Impedance | : | Raa = 3.995 | [k Ω] |
| Secondary Impedance | : | Rls = 5 | [Ω] |
| Turns Ratio Np/Ns | : | Ratio = 28.267 | [] |
| UL-tap: | | tap = 33 | [%] |
| Cathode Feedback Ratio | : | cfb = 7.1 | [%] |
| -1 dB Frequency Range [Hz to kHz] (3) | : | flf = 0.971 | fhf = 67.483 |
| -1 dB Frequency Range [Hz to kHz] (3) | : | fl1 = 0.414 | fh1 = 137.031 |
| -3 dB Frequency Range [Hz to kHz] (3) | : | fl3 = 0.211 | fh3 = 223.771 |
| Nominal Power (1) | : | Pn = 70 | [W] |
| - 3 dB Power Bandwidth starting at | : | fu = 14 | [Hz] |
| Total primary Inductance (2) | : | Lp = 1.056 \cdot 10 ³ | [H] |
| Primary Leakage Inductance | : | lsp = 3.1 | [mH] |
| Effective Primary Capacitance | : | cip = 0.358 | [nF] |
| Total Primary DC Resistance | : | Rip = 120 | [Ω] |
| Total Secondary DC Resistance | : | Ris = 0.15 | [Ω] |
| Tubes Plate Resistance per section | : | ri = 1 | [k Ω] |
| Insertion Loss | : | lloss = 0.253 | [dB] |
| Q-factor 2nd order HF roll-off (5) | : | Q = 0.607 | [] |
| HF roll-off Specific Frequency (5) | : | Fo = 266.745 | [kHz] |
| Quality Factor (5) | : | QF = 3.406 \cdot 10 ⁵ | [] |
| Quality Decade Factor = log(QF) (5) | : | QDF = 5.532 | [] |
| Tuning Factor (5) | : | TF = 3.115 | [] |
| Tuning Decade Factor = log(TF) (5) | : | TDF = 0.493 | [] |
| Frequency Decade Factor (4,5) | : | FDF = 6.026 | [] |

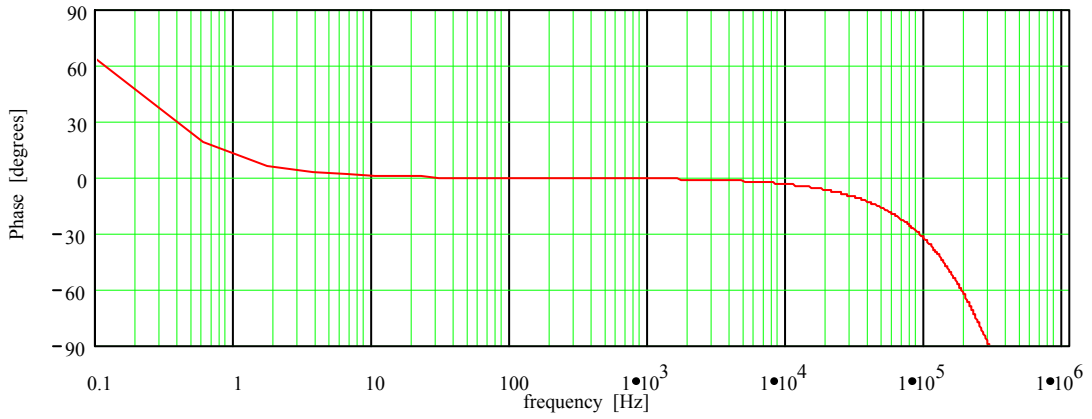
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls; ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of frequency decades transferred
- (5): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal Output Transformers; preprint 3887, 97th AES Convention San Francisco
- (C): Copyright 1994 Vanderveen; Version 1.7; results date 2-2-2012.
Final specs can deviate 15% or improve without notice

TRAFCO TOROIDAL PUSH-PULL TRANSFORMER ; VDV-4070-CFB

Frequency Response; Vertical 1 dB/div; Horizontal .1 Hz to 1 MHz (3)



Phase Response; Vertical 30 deg./div; Horizontal .1 Hz to 1 MHz



Differential Phase Distortion; vert. 30 deg./div; hor. .1 Hz to 1 MHz

See: W.M.Leach, Differential Time Delay.; JAES sept.89 pp.709-715

