

G4040PP

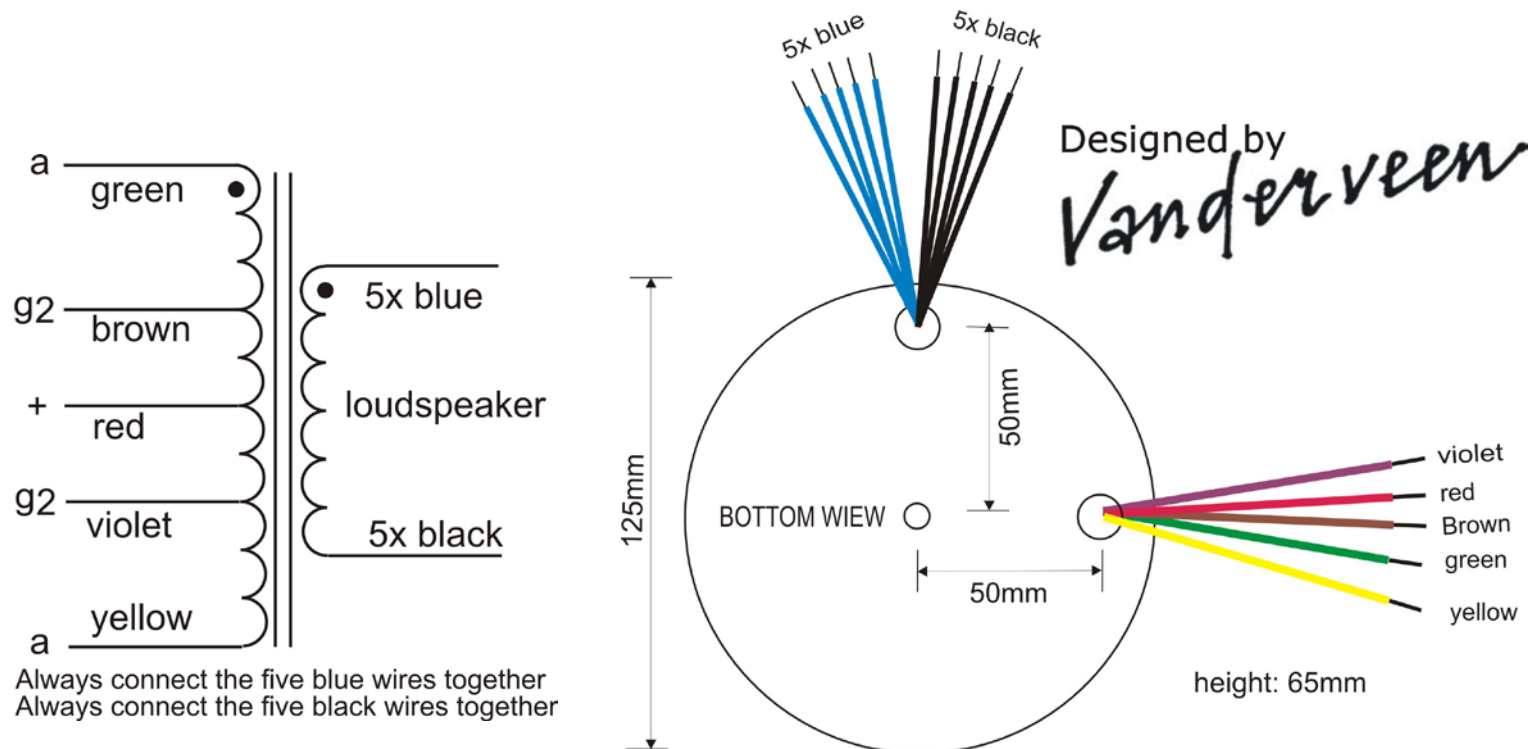
The wide bandwidth toroidal push-pull output transformer G4040PP with 33% Ultra Linear taps is meant for high-end tube power amplifiers in the mid-high frequency range. Also full range guitar amplifiers with 6L6 or 6550 or EL34 power tubes can use this OPT for extreme high quality sound production. The power bandwidth ranges from 60 Hz up to 300 kHz. The primary impedance is 4 kOhm with one secondary impedance of 4 Ohm. The nominal output power is 40 Watt.

dimensions: 125mm x 65mm

weight: 2 Kg.

price: 214€

technical data:



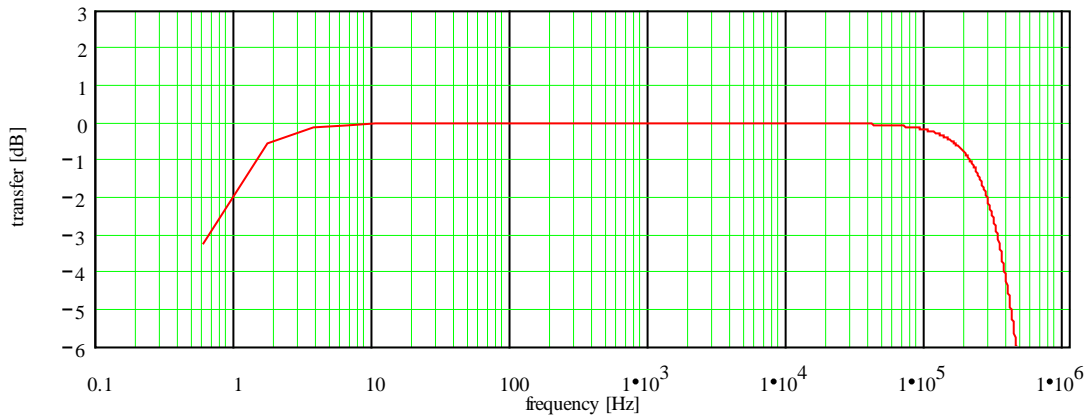
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application	VDV-G4040 reference specs.
Primary Impedance :	Raa = 3.93 [kΩ]
Secondary Impedance :	Rls = 4 [Ω]
Turns Ratio Np/Ns :	Ratio = 31.345 []
UL-tap:	tap = 33 [%]
Cathode Feedback Ratio :	cfb = 0 [%]
-1 dB Frequency Range [Hz to kHz] (3) :	flf = 2.903 fhf = 101.454
-1 dB Frequency Range [Hz to kHz] (3) :	fl1 = 1.238 fh1 = 193.379
-3 dB Frequency Range [Hz to kHz] (3) :	fl3 = 0.63 fh3 = 301.478
Nominal Power (1) :	Pn = 40 [W]
- 3 dB Power Bandwidth starting at :	fu = 60 [Hz]
Total primary Inductance (2) :	Lp = 440 [H]
Primary Leakage Inductance :	lsp = 1.96 [mH]
Effective Primary Capacitance :	cip = 0.267 [nF]
Total Primary DC Resistance :	Rip = 68.1 [Ω]
Total Secondary DC Resistance :	Ris = 0.102 [Ω]
Tubes Plate Resistance per section :	ri = 1.5 [kΩ]
Insertion Loss :	Iloss = 0.182 [dB]
Q-factor 2nd order HF roll-off (5) :	Q = 0.637 []
HF roll-off Specific Frequency (5) :	Fo = 338.418 [kHz]
Quality Factor (5) :	QF = 2.245•10 ⁵ []
Quality Decade Factor = log(QF) (5) :	QDF = 5.351 []
Tuning Factor (5) :	TF = 2.131 []
Tuning Decade Factor = log(TF) (5) :	TDF = 0.329 []
Frequency Decade Factor (4,5) :	FDF = 5.68 []

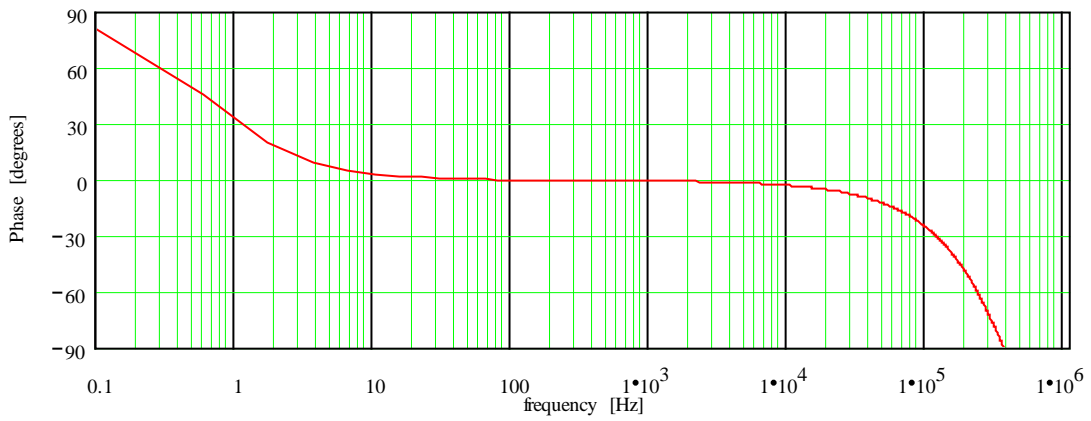
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls; ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of 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 29-08-2011.
Final specs can deviate 15% or improve without notice

TRAFCO TOROIDAL PUSH-PULL TRANSFORMER ; VDV-G4040; reference specs

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

