

2100-PP

Veoma velikog propusnog opsega (300 kHz) torusni puš-pul izlazni transformator je prikladan za veoma snažne (100 W) i ekstremno glasne cevne pojačavače. Četiri udvojene izlazne cevi treba koristiti kao sto su EL34 (gitarsko) ili 6550, KT88/90 (high end). Postoje posebni namotaji rešetki 40 %. Primarna impedansa je blizu 2 kOma a sekundarna impedansa je standardno 5 Oma. Ovaj transformator je namenjen za vrlo dinamičnu visoko kvalitetnu reprodukciju zvuka sa bas refleks ili zvučnicima sa zatvorenom kutijom. Dozvoljene su veće vrednosti negativne povratne sprege nego uobičajeno bez prisustva rezonanci. Pogledati (*) za objašnjenje ovog transformatora.

Knjiga: (*) Menno van der Veen: Modern High-end Valve Amplifiers based on toroidal output transformers; Elektor, ISBN: 978-0-905705-63-7 poglavlje 11.

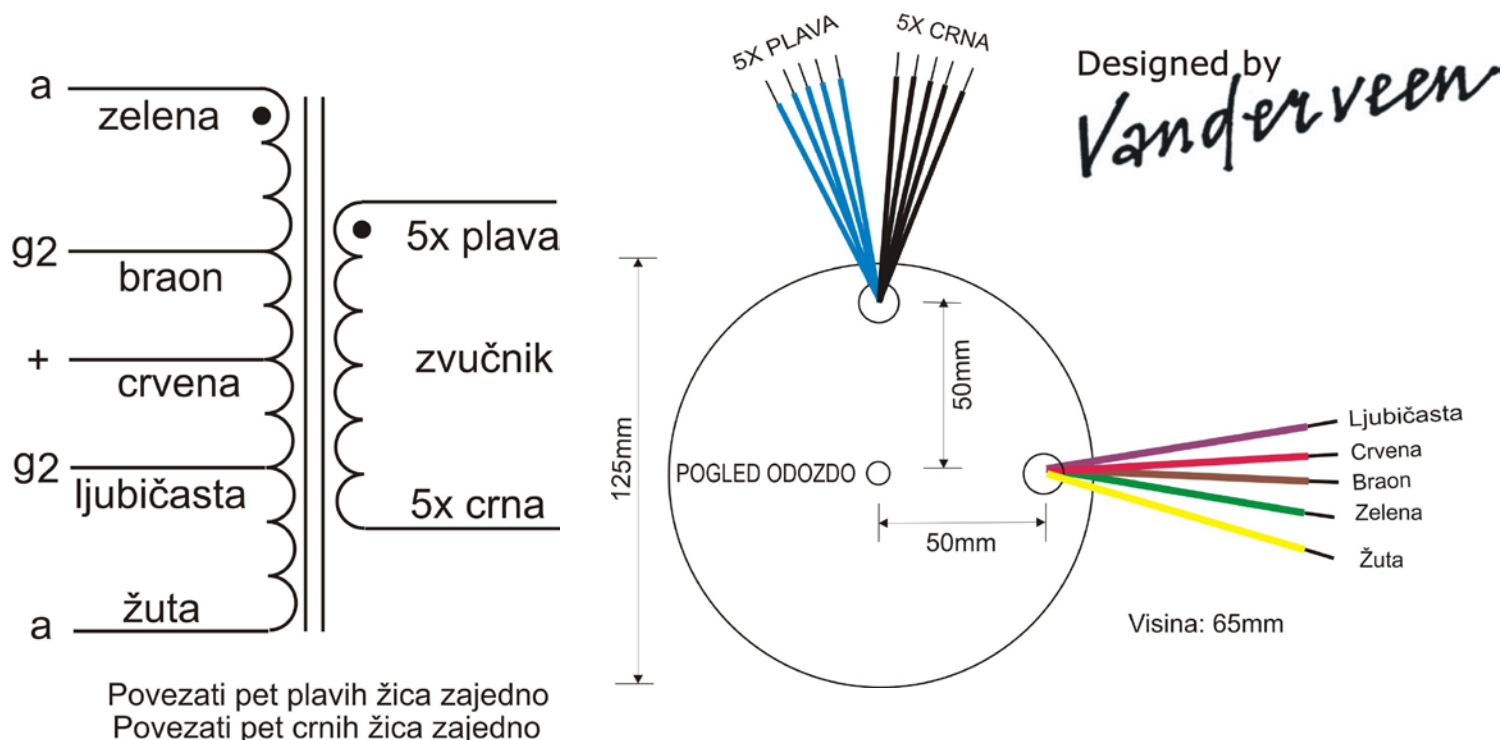
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

Dimenzije (prečnik x visina): 125mm x 65mm

Težina: 2,3Kg.

Cena: 203€ (Dinarska protivvrednost).

Tehnički podaci:



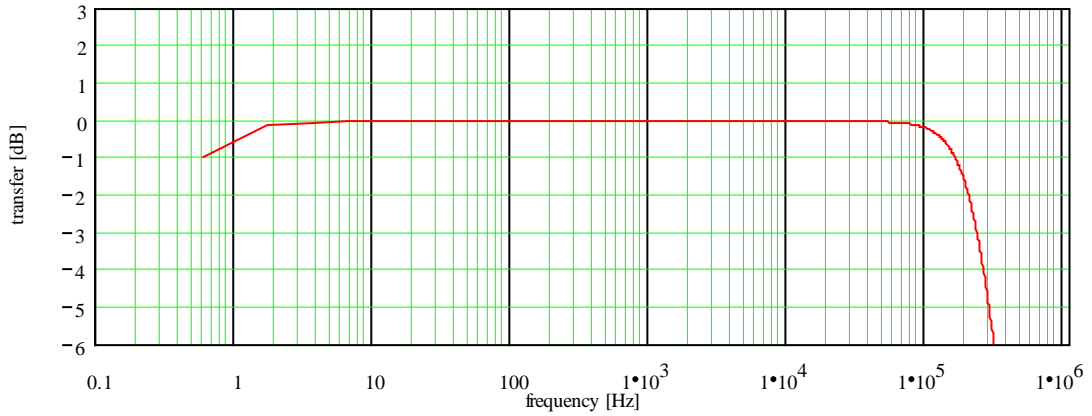
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-2100.	
Primary Impedance	:	Raa = 1.885	[kΩ]
Secondary Impedance	:	Rls = 5	[Ω]
Turns Ratio Np/Ns	:	Ratio = 19.417	[]
UL-tap:		tap = 40	[%]
Cathode Feedback Ratio	:	cfb = 0	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	flf = 1.401	fhf = 96.495
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.598	fh1 = 152.162
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 0.304	fh3 = 217.003
Nominal Power (1)	:	Pn = 100	[W]
- 3 dB Power Bandwidth starting at	:	fu = 21	[Hz]
Total primary Inductance (2)	:	Lp = 530	[H]
Primary Leakage Inductance	:	lsp = 1.8	[mH]
Effective Primary Capacitance	:	cip = 0.585	[nF]
Total Primary DC Resistance	:	Rip = 104	[Ω]
Total Secondary DC Resistance	:	Ris = 0.18	[Ω]
Tubes Plate Resistance per section	:	ri = 1	[kΩ]
Insertion Loss	:	lloss = 0.379	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.695	[]
HF roll-off Specific Frequency (5)	:	Fo = 220.9	[kHz]
Quality Factor (5)	:	QF = 2.944•10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.469	[]
Tuning Factor (5)	:	TF = 2.423	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.384	[]
Frequency Decade Factor (4,5)	:	FDF = 5.853	[]

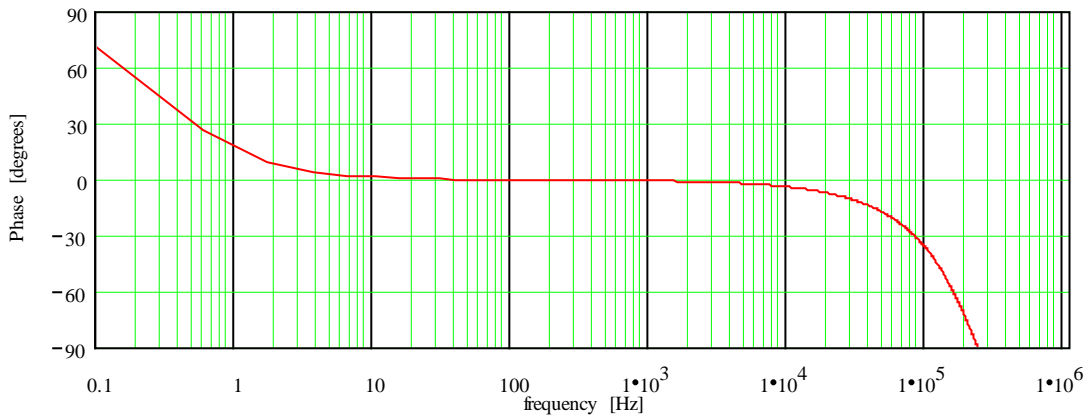
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls: ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of 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-2100

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

