

8020-PP

Torusni širokopojasni puš pul izlazni transformator namenjen je za kvalitetne cevne audio pojačavače izlaznih snaga 20W, sa cevima kao što su poznate 300B i 2A3 triode, ili standardne EL84 ili 6V6 srednje snažne pentode. Kako mu je 8 kOmsko efektivno primarno opterećenje skoro ravno, ima minimalna izobličenja sa dobrim dampiranjem zvučnika i bez ikakve povratne sprege. Za većinu domaćih primena on je standard i daje ekstremno detaljan i čist zvuk sa horn zvučnicima. Transformator ima izvod na 33% za Ultra Linear povratnu spregu, a izlazna impendansa je standardna 5 Oma. Pogledati (\*) za detaljno objašnjenje

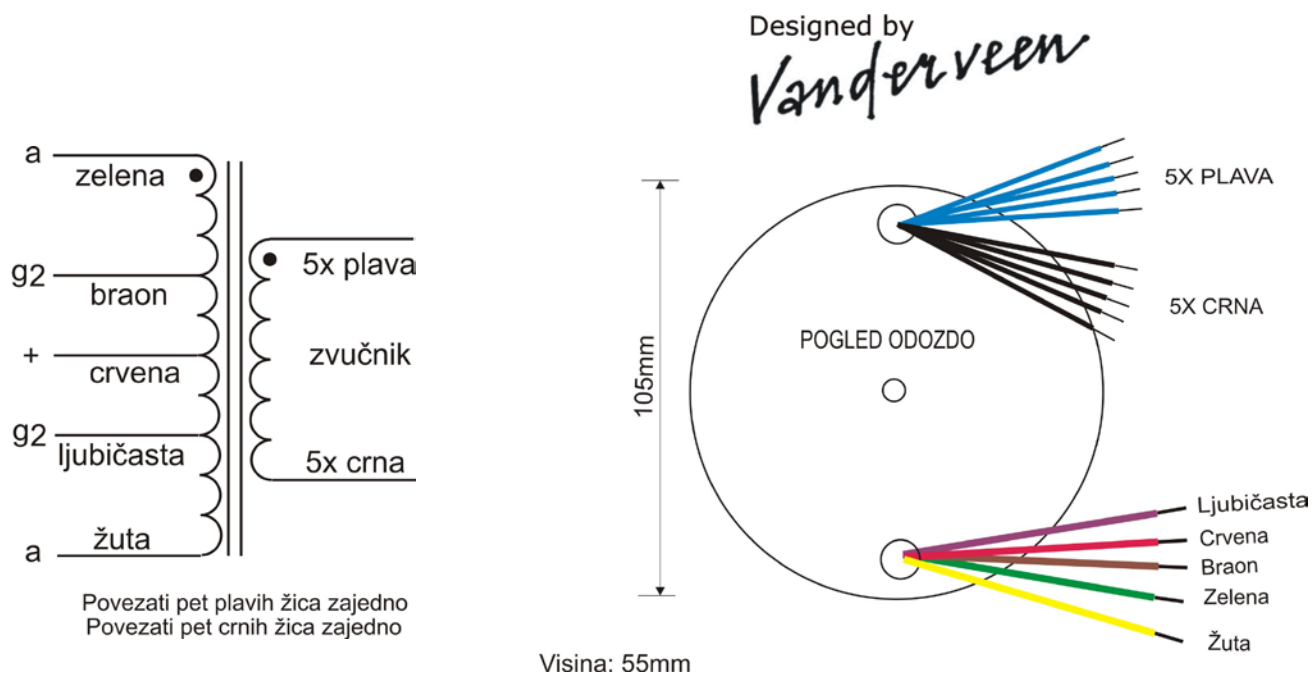
(\*) Knjiga Menno van der Veen: Modern High-end Valve Amplifiers based on toroidal output transformers; Elektor, ISBN: 978-0-905705-63-7; poglavlje 11.

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

Dimenzije (prečnik x visina): 105mm x 55mm

Težina: 1,2 Kg.

Cena: 160€ (Dinarska protivvrednost).



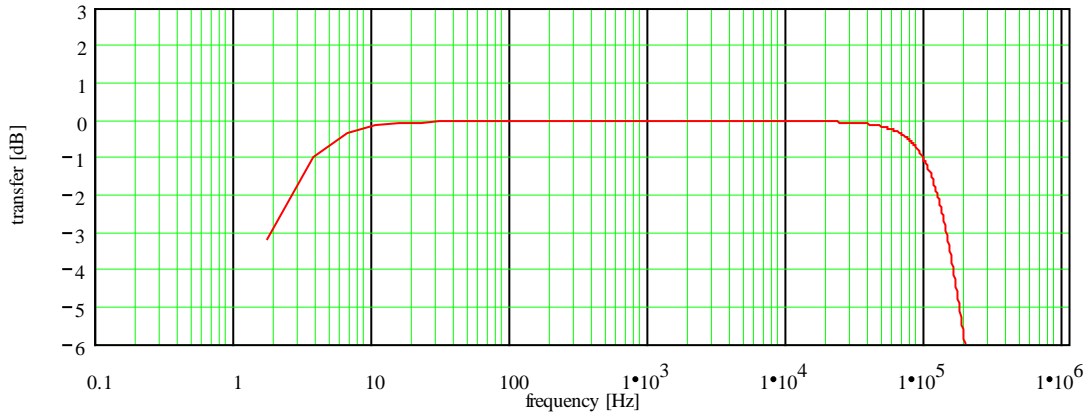
## WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-8020.	
Primary Impedance	:	Raa = 8	[kΩ]
Secondary Impedance	:	Rls = 5	[Ω]
Turns Ratio Np/Ns	:	Ratio = 40	[ ]
UL-tap:		tap = 33	[%]
Cathode Feedback Ratio	:	cfb = 0	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	flf = 8.261	fhf = 51.826
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 3.524	fh1 = 89.045
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 1.793	fh3 = 131.564
Nominal Power (1)	:	Pn = 20	[W]
- 3 dB Power Bandwidth starting at	:	fu = 28.5	[Hz]
Total primary Inductance (2)	:	Lp = 485	[H]
Primary Leakage Inductance	:	lsp = 8	[mH]
Effective Primary Capacitance	:	cip = 0.25	[nF]
Total Primary DC Resistance	:	Rip = 155.4	[Ω]
Total Secondary DC Resistance	:	Ris = 0.161	[Ω]
Tubes Plate Resistance per section	:	ri = 8	[kΩ]
Insertion Loss	:	lloss = 0.219	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.671	[ ]
HF roll-off Specific Frequency (5)	:	Fo = 139.013	[kHz]
Quality Factor (5)	:	QF = 6.063·10 <sup>4</sup>	[ ]
Quality Decade Factor = log(QF) (5)	:	QDF = 4.783	[ ]
Tuning Factor (5)	:	TF = 1.21	[ ]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.083	[ ]
Frequency Decade Factor (4,5)	:	FDF = 4.866	[ ]

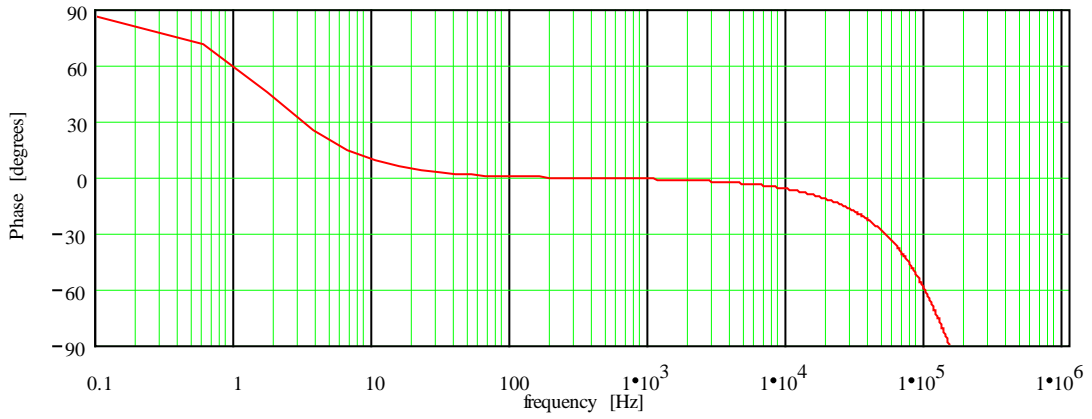
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls: ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of 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-8020

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

