

2100-SSCR-PP

Veoma velikog propusnog opsega (200 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 % koji omogućavaju veće anodne napone napajanja nego obično. Primarna impedansa je blizu 2 kOma a sekundarna impedansa je standardno 5 Oma. Ovaj transformator je namenjen za vrlo dinamičnu visoko kvalitetnu reprodukciju zvuka. Pogledati (*) za objašnjenje ovog transformatora.

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

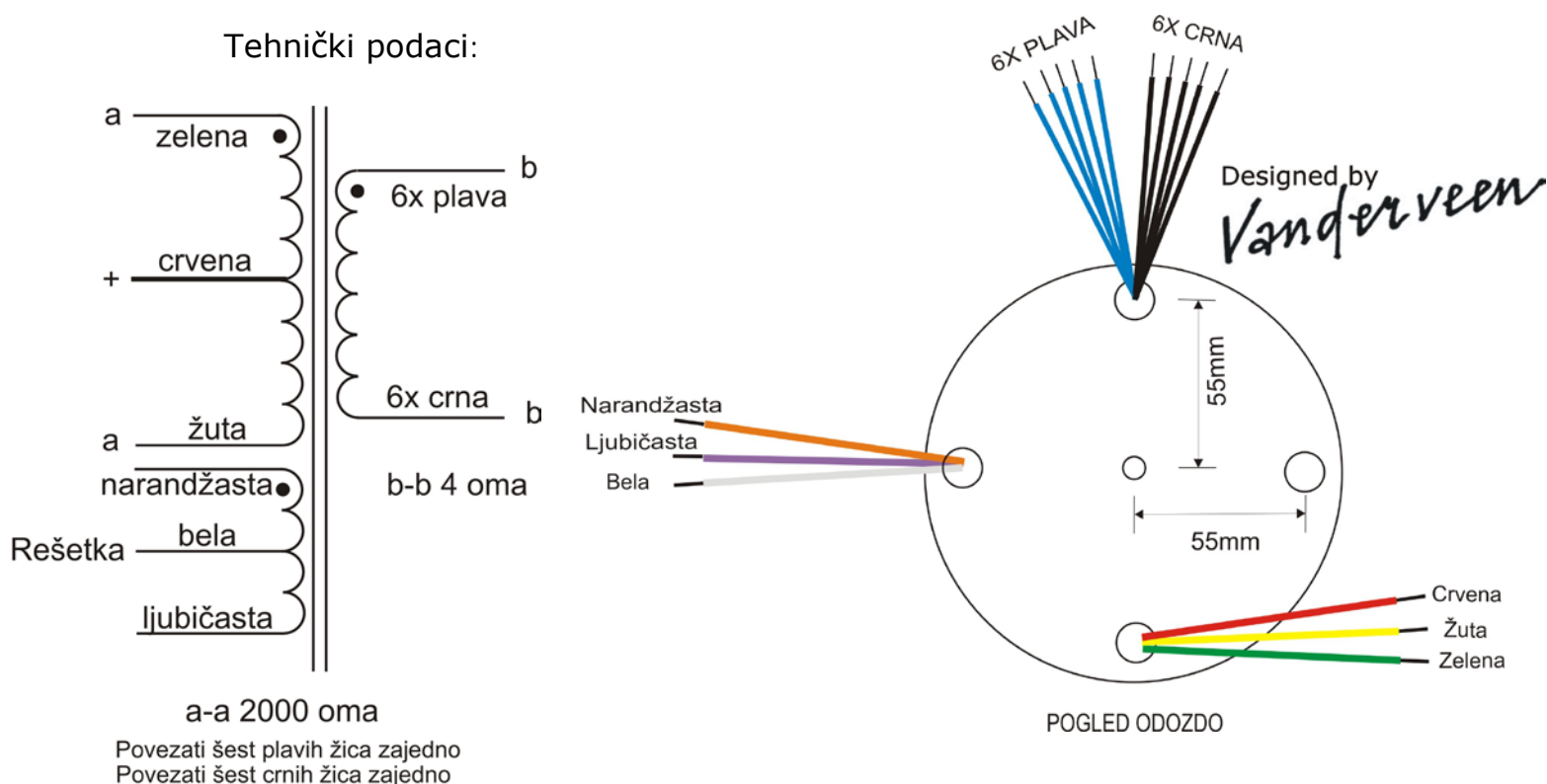
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

Dimenzije (prečnik x visina): 155mm x 90mm.

Težina: 5,3 Kg.

Cena: 299€ (Dinarska protivvrednost).

Tehnički podaci:



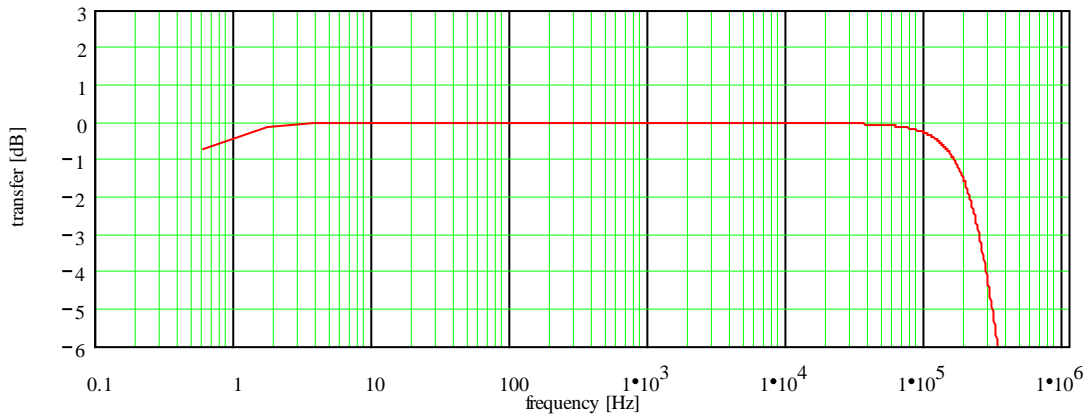
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-2100-CFB.	
Primary Impedance	:	Raa = 1.995	[kΩ]
Secondary Impedance	:	Rls = 5	[Ω]
Turns Ratio Np/Ns	:	Ratio = 19.977	[]
UL-tap:		tap = 33	[%]
Cathode Feedback Ratio	:	cfb = 10	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	flf = 1.141	fhf = 83.91
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.487	fh1 = 149.547
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 0.248	fh3 = 224.74
Nominal Power (1)	:	Pn = 100	[W]
- 3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	Lp = 663	[H]
Primary Leakage Inductance	:	lsp = 1.4	[mH]
Effective Primary Capacitance	:	cip = 0.638	[nF]
Total Primary DC Resistance	:	Rip = 63	[Ω]
Total Secondary DC Resistance	:	Ris = 0.17	[Ω]
Tubes Plate Resistance per section	:	ri = 1	[kΩ]
Insertion Loss	:	lloss = 0.276	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.66	[]
HF roll-off Specific Frequency (5)	:	Fo = 241.886	[kHz]
Quality Factor (5)	:	QF = 4.736 • 10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.675	[]
Tuning Factor (5)	:	TF = 1.916	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.282	[]
Frequency Decade Factor (4,5)	:	FDF = 5.958	[]

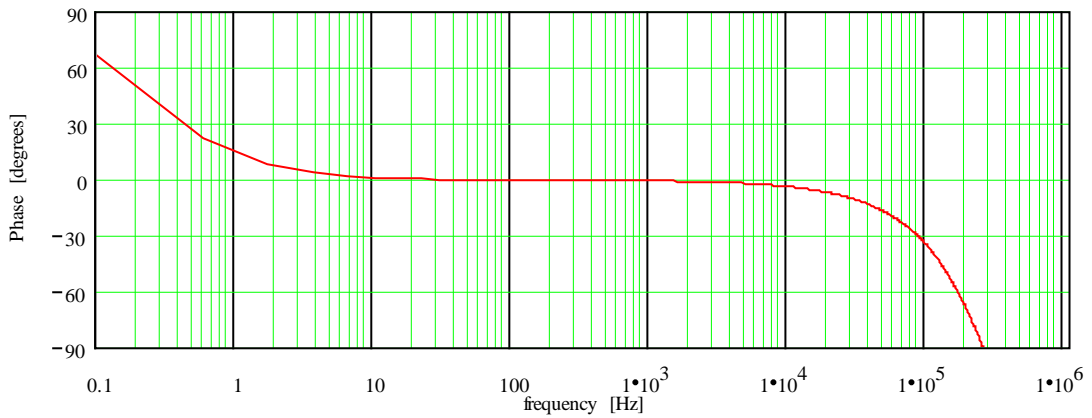
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls; ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of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

