

2100-CFBH-PP

Vrlo rasprostranjen torusni izlazni puš-pul transformator namenjen je za srednje-visoke opsege frekvencija, cevne pojačavače snaga (100 W). Propusni opseg je od 28 Hz do 330 kHz. Četiri izlazne cevi u paralelnoj vezi (6550, KT88/90) se mogu koristiti. Posebni namotaji katodne povratne sprege na 10 % i 33 % Ultra Linear stvaraju ekstremno nisku cevnu distorziju sa visokim damping faktorom zvučnika bez korišćenja negativne povratne sprege. Primarna impedansa je je blizu 2 kOma. Sekundarna impedansa je standardno 5 Oma. Ovaj transformator daje ekstremno visoko kvalitetan zvuk gitare ili srednje-visoki oseg frekvencija. Pogledati (*) za detaljno objašnjenje.

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

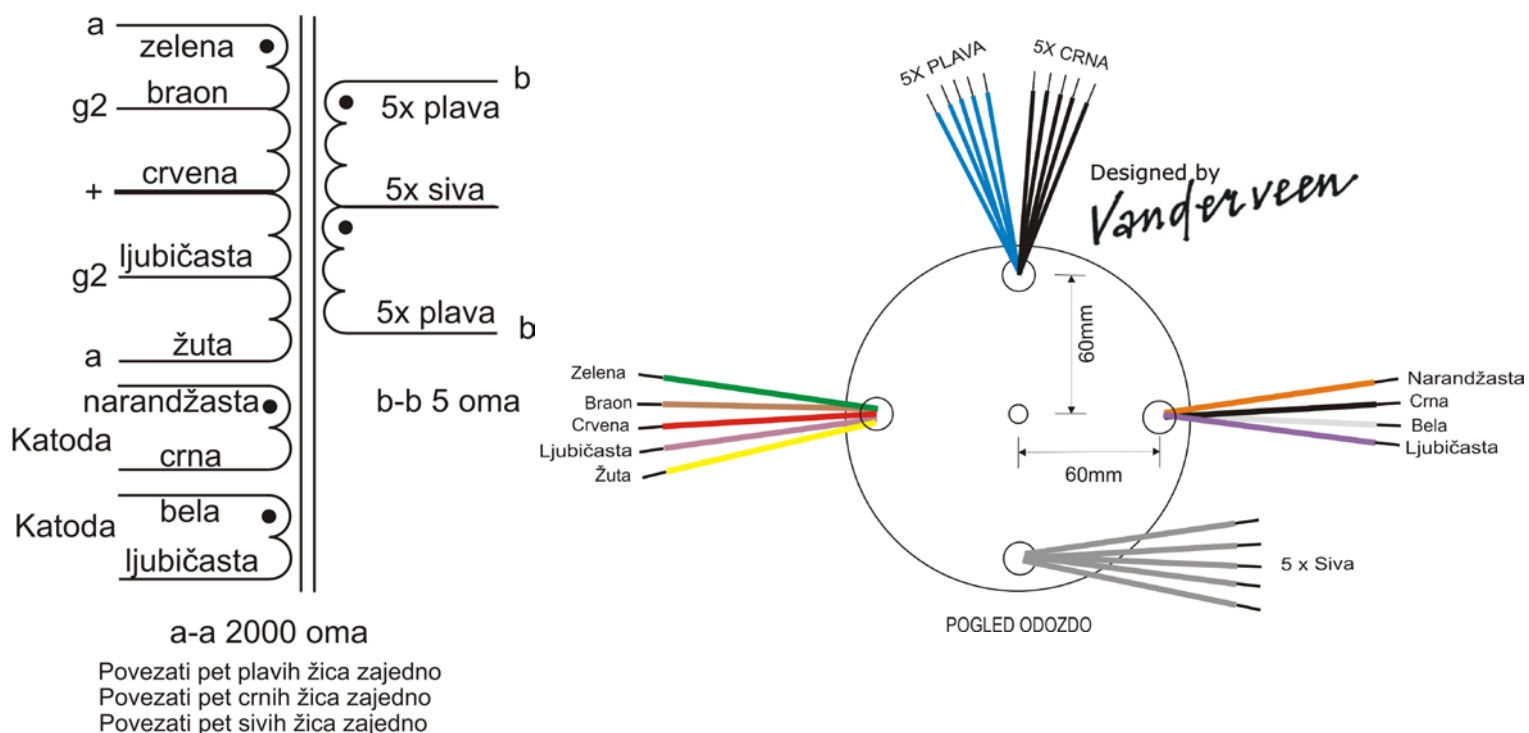
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

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

Težina: 2,3 Kg.

Cena: 225€ (Dinarska protivvrednost).

Tehnički podaci:



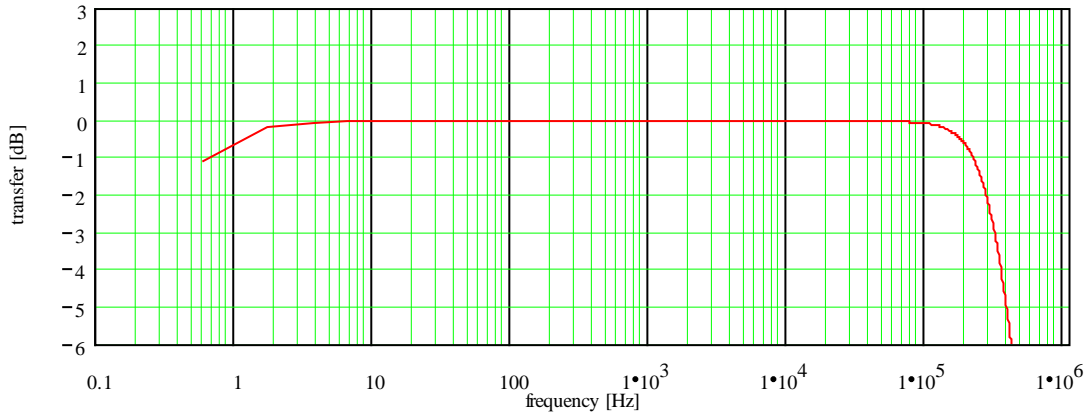
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-2100-CFBH.	
Primary Impedance	:	Raa = 1.995	[kΩ]
Secondary Impedance	:	Rls = 5	[Ω]
Turns Ratio Np/Ns	:	Ratio = 19.976	[]
UL-tap:		tap = 33	[%]
Cathode Feedback Ratio	:	cfb = 10	[%]
-.1 dB Frequency Range [Hz to kHz] (3)	:	flf = 1.485	fhf = 131.334
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.633	fh1 = 204.48
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 0.322	fh3 = 290.171
Nominal Power (1)	:	Pn = 100	[W]
- 3 dB Power Bandwidth starting at	:	fu = 28	[Hz]
Total primary Inductance (2)	:	Lp = 505	[H]
Primary Leakage Inductance	:	lsp = 1.5	[mH]
Effective Primary Capacitance	:	cip = 0.4	[nF]
Total Primary DC Resistance	:	Rip = 56	[Ω]
Total Secondary DC Resistance	:	Ris = 0.1	[Ω]
Tubes Plate Resistance per section	:	ri = 1	[kΩ]
Insertion Loss	:	Iloss = 0.204	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.698	[]
HF roll-off Specific Frequency (5)	:	Fo = 293.864	[kHz]
Quality Factor (5)	:	QF = 3.367 • 10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.527	[]
Tuning Factor (5)	:	TF = 2.674	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.427	[]
Frequency Decade Factor (4,5)	:	FDF = 5.954	[]

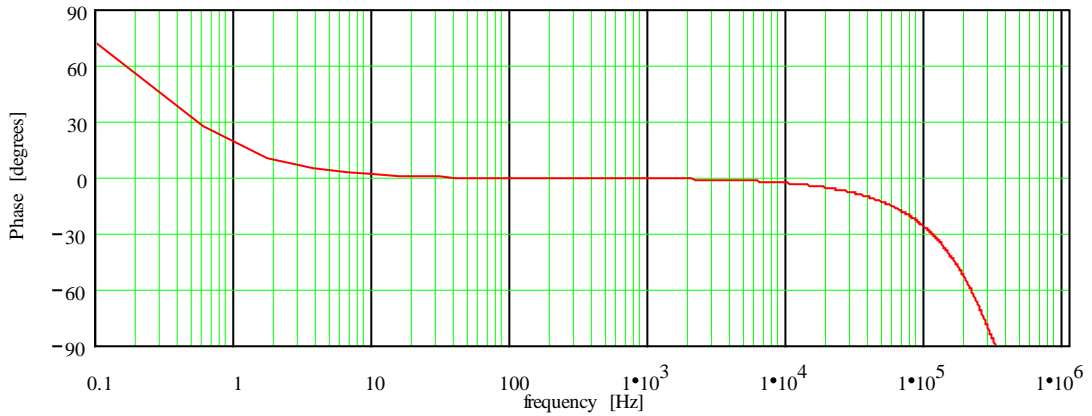
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls; ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of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

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

