

2100-SSCR-CFB-PP

Ovaj specijalni torusni transformator kombinuje sve kvalitete svojih predhodnika. 100 W puš-pul ima primarnu impedansu 2 kOma, podržava 4 izlazne cevi kao sto su 6550 ili KT88, dve po dve u puš-pulu. Namotaj rešetki Ultra Linear povratne sprege je potpuno odvojen od primara. To omogućava niže napone rešetki od anodnih napona, pa samim tim veoma smanjuje harmonička izobličenja. Takodje dodata su još dva odvojena namotaja katodne povratne sprege 10% što veoma povećava damping faktor pojačavača koji ne koriste negativnu povratnu spregu. Za praktičnu primenu molim pogledajte (*) gde je u poglavlju 8 razmatrana aplikacija sa dve cevi. Samo izlazne cevi treba da se udvoje radi potpunog iskorišćenja ovog posebnog izlaznog transformatora.

Knjiga: (*) Menno van der Veen: "High-end Valve Amplifiers 2"; Elektor ISBN 978-0-905705-90-3

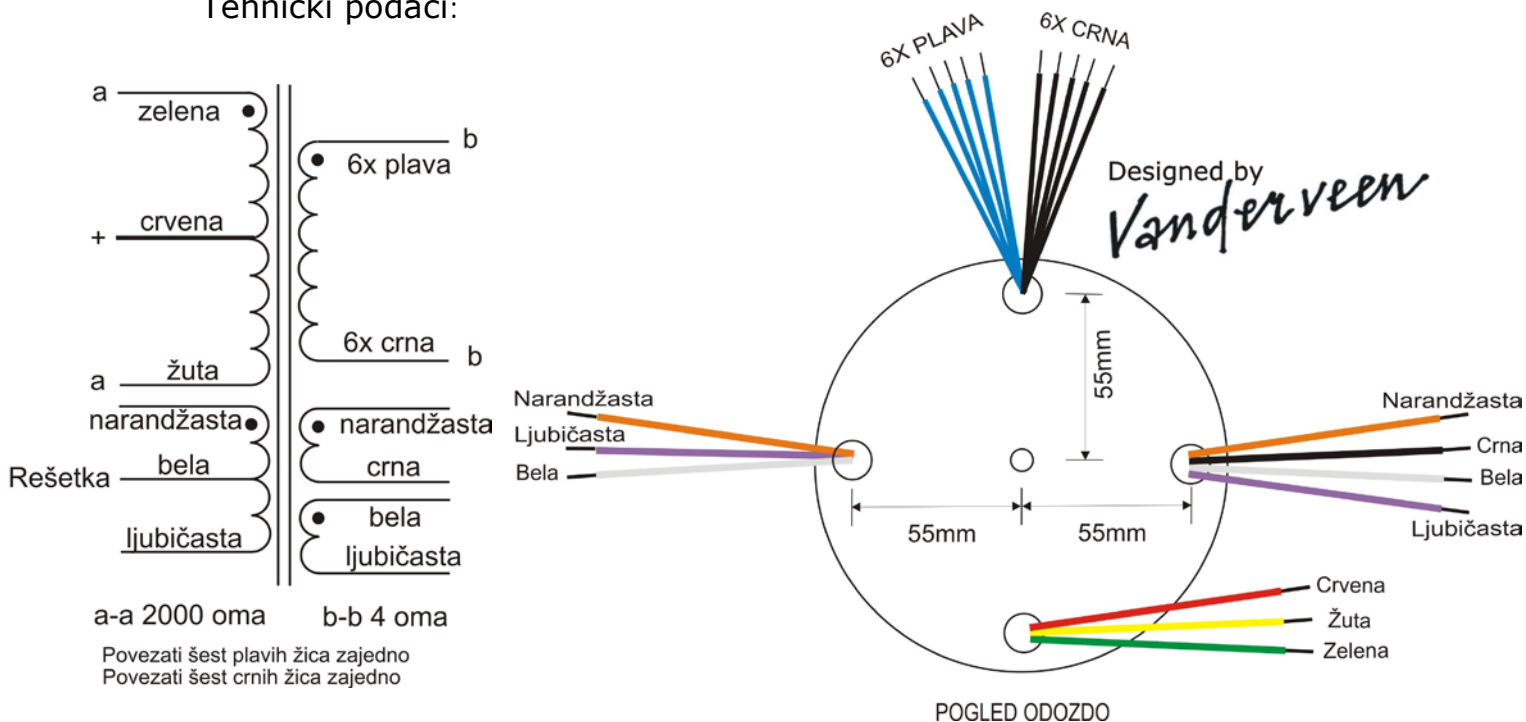
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

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

Težina: 5,3 Kg.

Cena: 309€ (Dinarska protivvrednost).

Tehnički podaci:



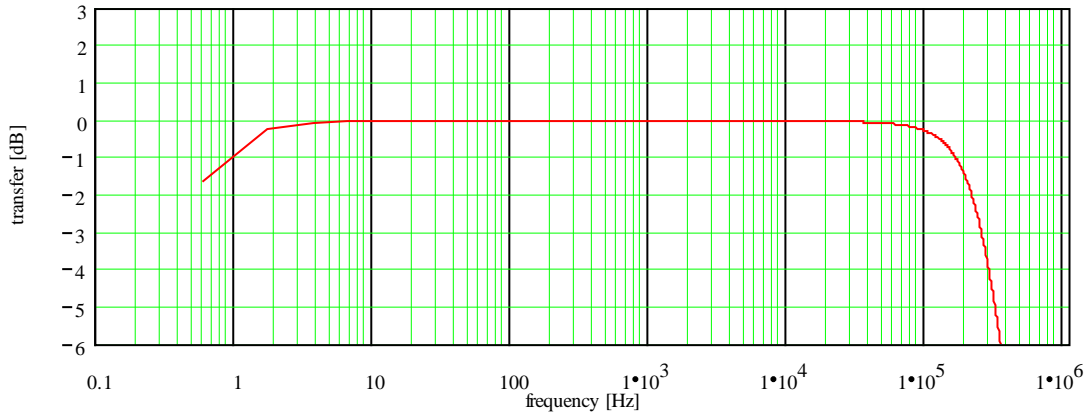
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-2100-SSCR-CFB.	
Primary Impedance	:	Raa = 2.011	[kΩ]
Secondary Impedance	:	Rls = 4	[Ω]
Turns Ratio Np/Ns	:	Ratio = 22.421	[]
UL-tap:		tap = 40	[%]
Cathode Feedback Ratio	:	cfb = 10	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	flf = 1.855	fhf = 84.373
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.791	fh1 = 154.016
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 0.403	fh3 = 234.272
Nominal Power (1)	:	Pn = 100	[W]
- 3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	Lp = 410	[H]
Primary Leakage Inductance	:	lsp = 1.3	[mH]
Effective Primary Capacitance	:	cip = 0.619	[nF]
Total Primary DC Resistance	:	Rip = 62.1	[Ω]
Total Secondary DC Resistance	:	Ris = 0.153	[Ω]
Tubes Plate Resistance per section	:	ri = 1	[kΩ]
Insertion Loss	:	lloss = 0.29	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.652	[]
HF roll-off Specific Frequency (5)	:	Fo = 255.566	[kHz]
Quality Factor (5)	:	QF = 3.154 • 10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.499	[]
Tuning Factor (5)	:	TF = 1.845	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.266	[]
Frequency Decade Factor (4,5)	:	FDF = 5.765	[]

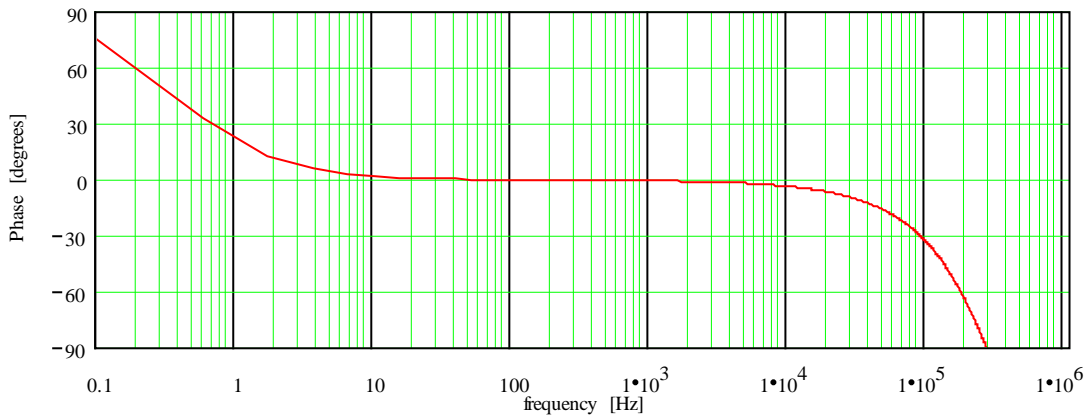
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls; ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of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

