

4070-CFB-PP

Torusni širokopojasni puš-pul izlazni transformator ima pored ostalog Ultra Linear izvod na 33%, poseban namotaj za katodnu povratnu spregu od 10%. Kombinacijom ovih lokalnih povratnih sprega dobijamo da pobuda ima nisku impedansu koja stvara 70 W snage sa propusnim opsegom od 14 Hz do 200 kHz. Sa 6550 i KT88 cevima dobijamo visoki kvalitet reprodukcije i nisko izobličenje sa dobro izraženim mikro detaljima, bez gubitaka. primarna impedansa je 4 kOma i sekundarnom impedansom 5 Oma. 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 8.

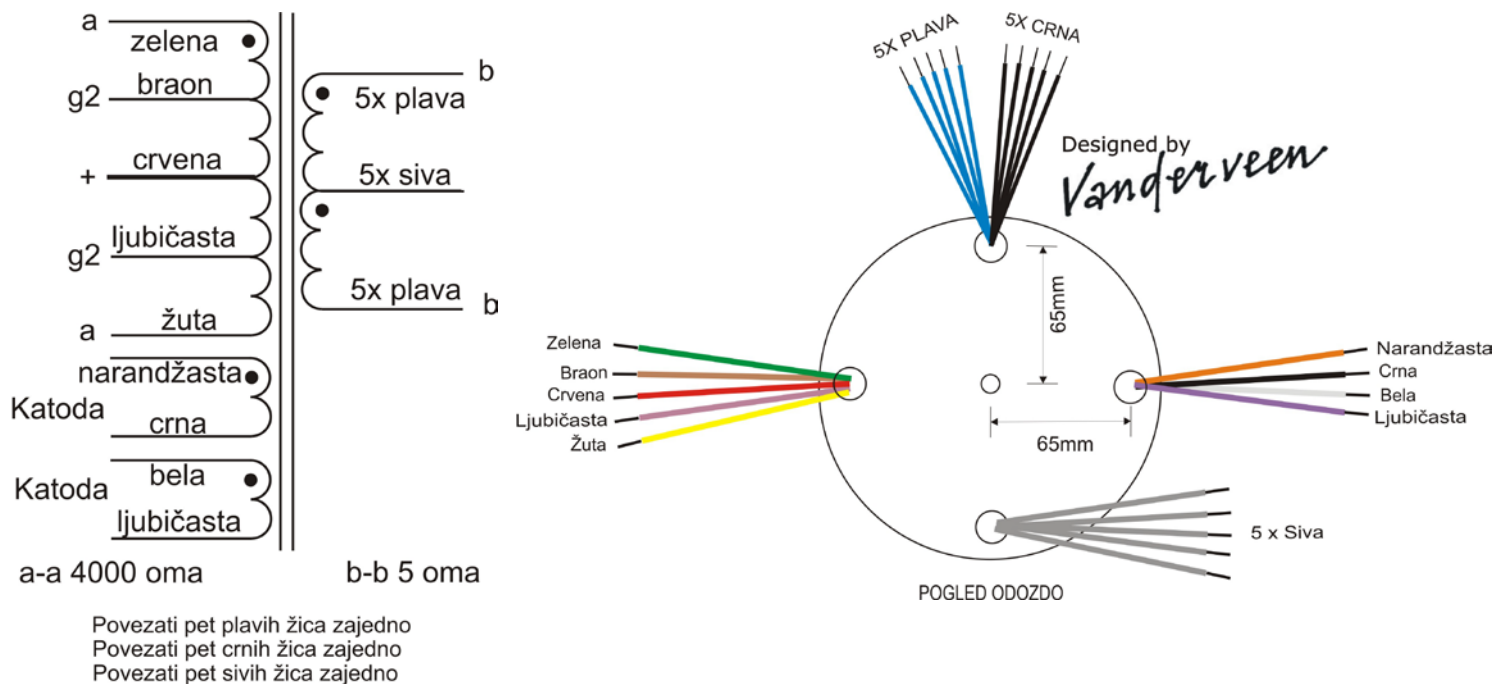
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

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

Težina: 4,6 Kg.

Cena: 289€ (Dinarska protivvrednost).

Tehnički podaci:



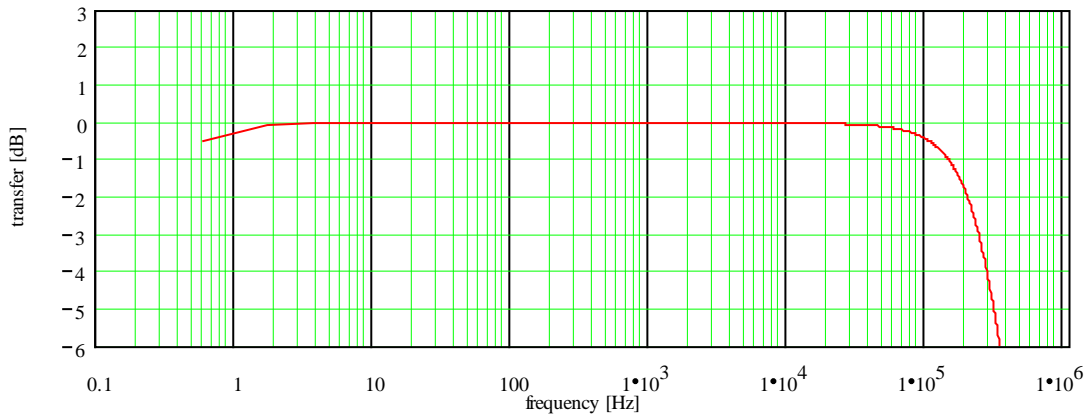
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-4070-CFB.	
Primary Impedance	:	Raa = 3.995	[kΩ]
Secondary Impedance	:	Rls = 5	[Ω]
Turns Ratio Np/Ns	:	Ratio = 28.267	[]
UL-tap:		tap = 33	[%]
Cathode Feedback Ratio	:	cfb = 7.1	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	flf = 0.971	fhf = 67.483
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.414	fh1 = 137.031
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 0.211	fh3 = 223.771
Nominal Power (1)	:	Pn = 70	[W]
- 3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	Lp = 1.056•10 ³	[H]
Primary Leakage Inductance	:	lsp = 3.1	[mH]
Effective Primary Capacitance	:	cip = 0.358	[nF]
Total Primary DC Resistance	:	Rip = 120	[Ω]
Total Secondary DC Resistance	:	Ris = 0.15	[Ω]
Tubes Plate Resistance per section	:	ri = 1	[kΩ]
Insertion Loss	:	lloss = 0.253	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.607	[]
HF roll-off Specific Frequency (5)	:	Fo = 266.745	[kHz]
Quality Factor (5)	:	QF = 3.406•10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.532	[]
Tuning Factor (5)	:	TF = 3.115	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.493	[]
Frequency Decade Factor (4,5)	:	FDF = 6.026	[]

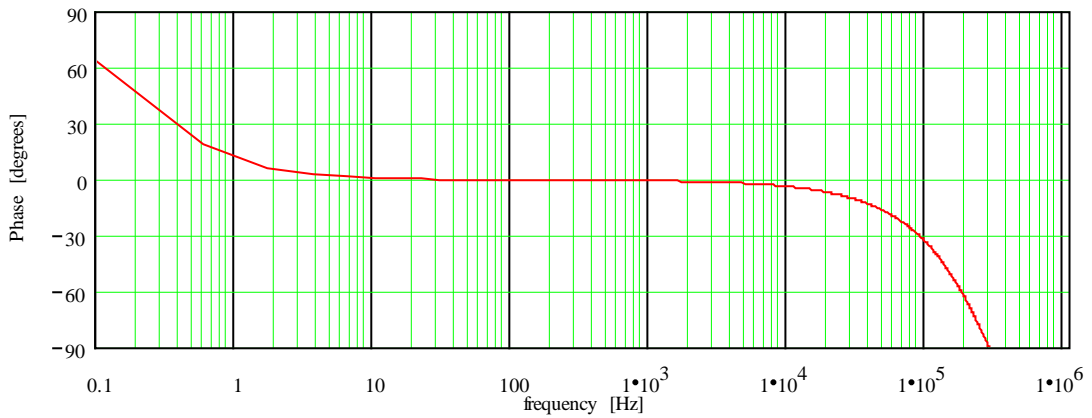
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in Rls: ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of 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-4070-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

