

6040-PP

Ovaj širokopropusni torusni puš-pul izlazni transformator je namenjen za visoko kvalitetne cevne pojačavače sa naponima do 350V. Njegova primarna impedansa od 6 kΩ stvara gotovo horizontalnu liniju ulaznog opterećenja i niskog izobličenja. Postoje Ultra Linear izvodi na 40% a sekundarna impedansa je standardna 5 Ω. 40 W snage i propusni opseg od 25 Hz do 130 kHz bez ikakve unutrašnje rezonance. Radi dobro sa cevima EL34, KT66, KT90 and 6550. U slučaju da želite da primenite cev KT88, moguća je pojava oscilacija na oko 640 kHz, koju je moguće prigušiti sa kondenzatorom 100pF povezanim sa rešetkama. Pogledati (*) za detaljno objašnjenje.

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

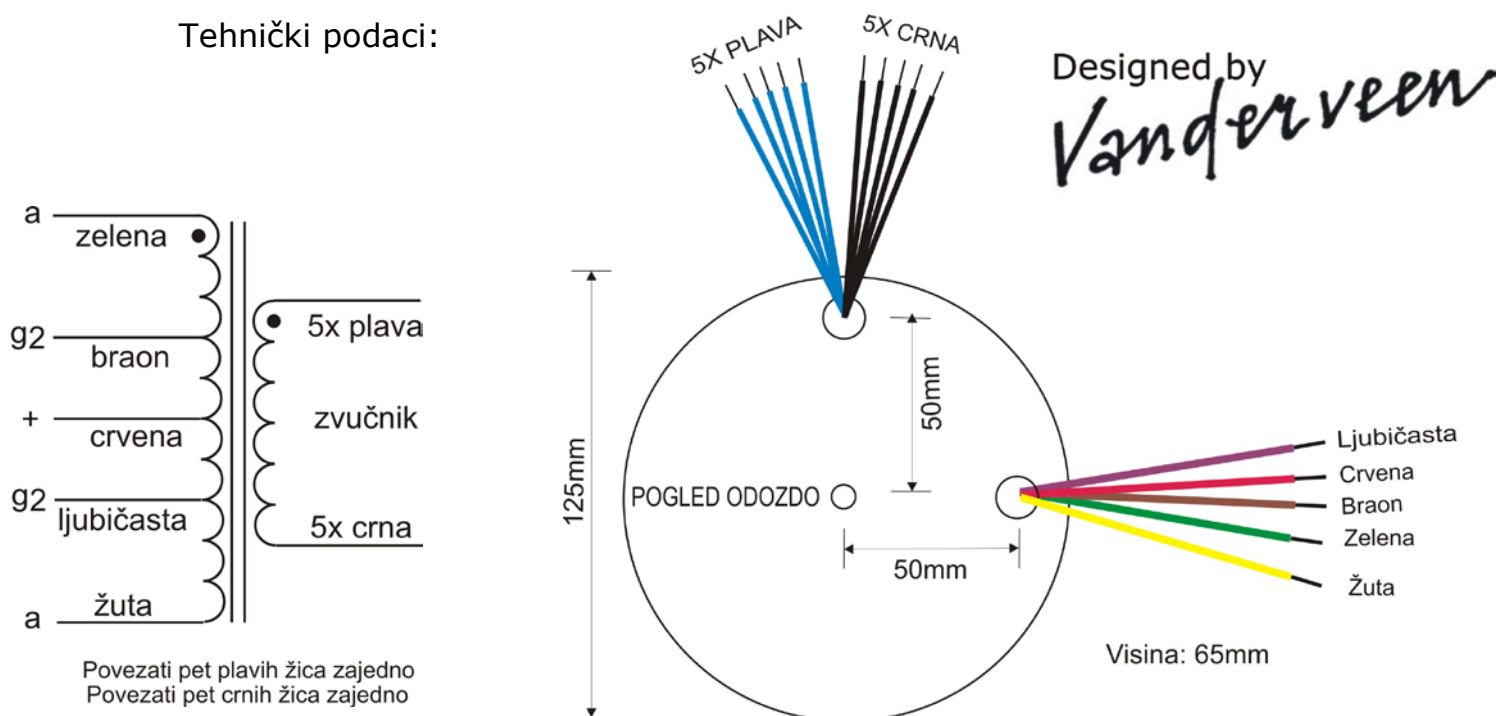
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

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

Težina: 2 Kg.

Cena: 214€ (Dinarska protivvrednost).

Tehnički podaci:



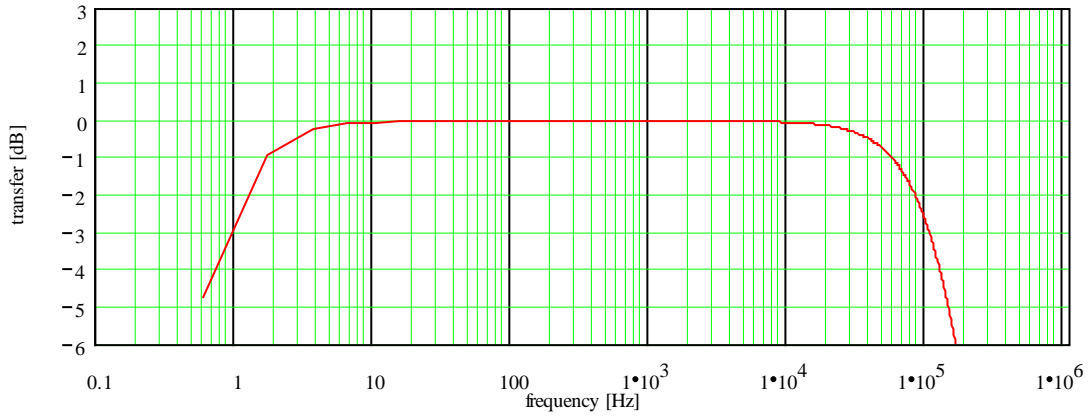
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-6040.	
Primary Impedance	:	$R_{aa} = 5.878$	[k Ω]
Secondary Impedance	:	$R_{ls} = 5$	[Ω]
Turns Ratio N_p/N_s	:	Ratio = 34.286	[]
UL-tap:		tap = 40	[%]
Cathode Feedback Ratio	:	cfb = 0	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	$f_{lf} = 3.902$	$f_{hf} = 24.04$
-1 dB Frequency Range [Hz to kHz] (3)	:	$f_{l1} = 1.664$	$f_{h1} = 53.502$
-3 dB Frequency Range [Hz to kHz] (3)	:	$f_{l3} = 0.847$	$f_{h3} = 98.841$
Nominal Power (1)	:	$P_n = 40$	[W]
- 3 dB Power Bandwidth starting at	:	$f_u = 25$	[Hz]
Total primary Inductance (2)	:	$L_p = 535$	[H]
Primary Leakage Inductance	:	$l_{sp} = 3.7$	[mH]
Effective Primary Capacitance	:	$c_{ip} = 0.613$	[nF]
Total Primary DC Resistance	:	$R_{ip} = 68.1$	[Ω]
Total Secondary DC Resistance	:	$R_{is} = 0.158$	[Ω]
Tubes Plate Resistance per section	:	$r_i = 2.65$	[k Ω]
Insertion Loss	:	$I_{loss} = 0.184$	[dB]
Q-factor 2nd order HF roll-off (5)	:	$Q = 0.496$	[]
HF roll-off Specific Frequency (5)	:	$F_o = 155.203$	[kHz]
Quality Factor (5)	:	$QF = 1.446 \cdot 10^5$	[]
Quality Decade Factor = log(QF) (5)	:	$QDF = 5.16$	[]
Tuning Factor (5)	:	$TF = 0.807$	[]
Tuning Decade Factor = log(TF) (5)	:	$TDF = -0.093$	[]
Frequency Decade Factor (4,5)	:	$FDF = 5.067$	[]

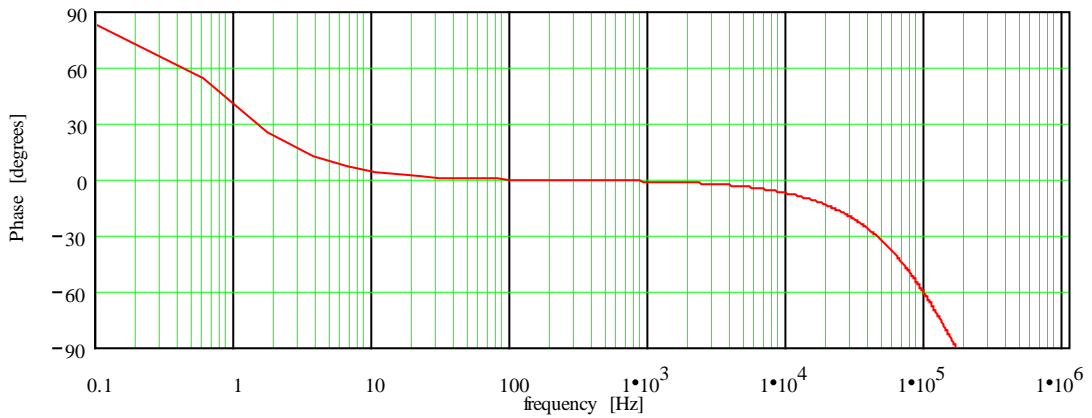
- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in R_{ls} ; r_i and R_{ls} are pure Ohmic
- (4): defined as $FDF = \log(f_{h3}/f_{l3}) =$ 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-6040

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

