1070-UC

Ovaj transformator je namenjen za 2 EL34 cevi u poznatoj Unity Coupled vezi.Efektivna primarna impedansa 4 kOma a izlazna impendansa je standardna 5 Oma.Daje 70W snage sa propusnim opsegom od 14 Hz pa sve do 440 kHz.Posebni namotaj povratne sprege omogućava naprednu topologiju povratne sprege. Pogledati (*) za objašnjenje ovog transformatora.

(*) Knjiga Menno van der Veen: Menno van der Veen: High-end Valve Amplifiers 2, New models and applications; Elektor; ISBN: 978-0-905705-90-3; poglavlje 3.13

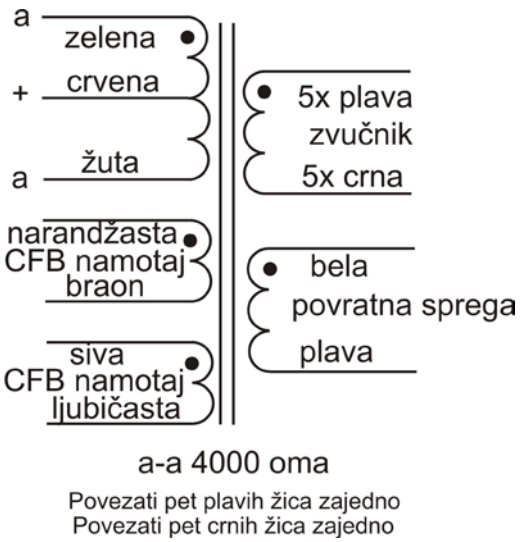
Transformator je zaliven u metalnom kružnom kućištu koje je plastificirano crnom mat bojom.

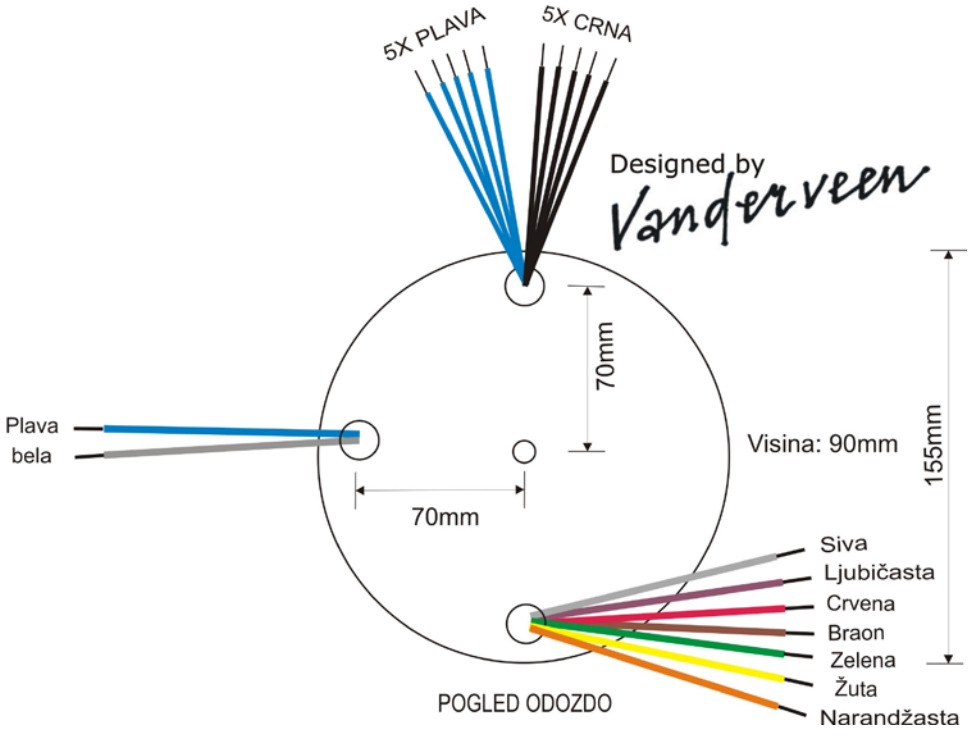
Dimenzije (prečnik x visina): 155mm x 90mm

Težina:4,6 Kg.

Cena: 235€ (Dinarska protivvrednost).

Tehnički podaci:





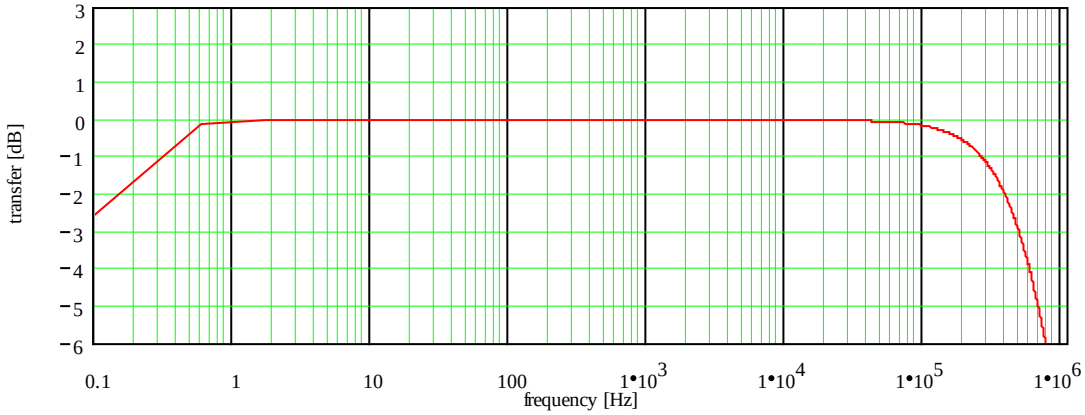
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

Type and Application		VDV-1070-UC.	
Primary Impedance	:	$Raa = 4$	[kΩ]
Secondary Impedance	:	$Rls = 5$	[Ω]
Turns Ratio Np/Ns	:	$Ratio = 28.284$	[ ]
UL-tap:		$tap = -100$	[%]
Cathode Feedback Ratio	:	$cfb = 100$	[%]
-.1 dB Frequency Range [Hz to kHz] (3)	:	$flf = 0.416$	$fhf = 110.074$
-1 dB Frequency Range [Hz to kHz] (3)	:	$fl1 = 0.177$	$fh1 = 244.565$
-3 dB Requency Range [Hz to kHz] (3)	:	$fl3 = 0.09$	$fh3 = 450.161$
Nominal Power (1)	:	$Pn = 70$	[W]
- 3 dB Power Bandwidth starting at	:	$fu = 14$	[Hz]
Total primary Inductance (2)	:	$Lp = 1.574 \cdot 10^{3}$	[H]
Primary Leakage Inductance	:	$lsp = 0.67$	[mH]
Effective Primary Capacitance	:	$cip = 0.388$	[nF]
Total Primary DC Resistance	:	$Rip = 78.4$	[Ω]
Total Secondary DC Resistance	:	$Ris = 0.18$	[Ω]
Tubes Plate Resistance per section	:	$ri = 0.53$	[kΩ]
Insertion Loss	:	$Iloss = 0.235$	[dB]
Q-factor 2nd order HF roll-off (5)	:	$Q = 0.501$	[ ]
HF roll-off Specific Frequency (5)	:	$Fo = 696.834$	[kHz]
Quality Factor (5)	:	$QF = 2.349 \cdot 10^{6}$	[ ]
Quality Decade Factor = log(QF) (5)	:	$QDF = 6.371$	[ ]
Tuning Factor (5)	:	$TF = 2.122$	[ ]
Tuning Decade Factor = log(TF) (5)	:	$TDF = 0.327$	[ ]
Frequency Decade Factor (4,5)	:	$FDF = 6.698$	[ ]

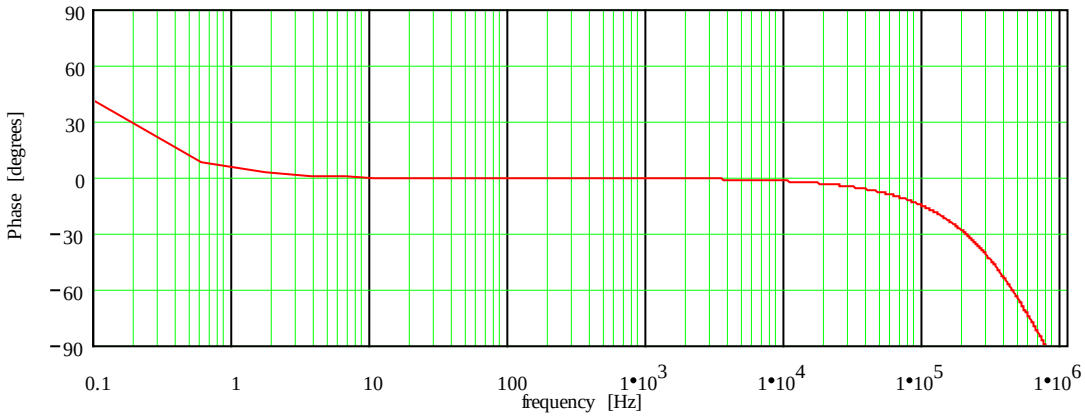
(1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
(2): measured at 230Vrms at 50Hz over total primary
(3): calculation at 1 Watt in Rls; ri and Rls are pure Ohmic
(4): defined as FDF = log(fh3/fl3) = number of frequency decades transfered
(5): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal Output Transformers; preprint 3887, 97th AES Convention San Francisco

TRAFCO TOROIDAL PUSH-PULL TRANSFORMER ; VDV-1070-UC

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