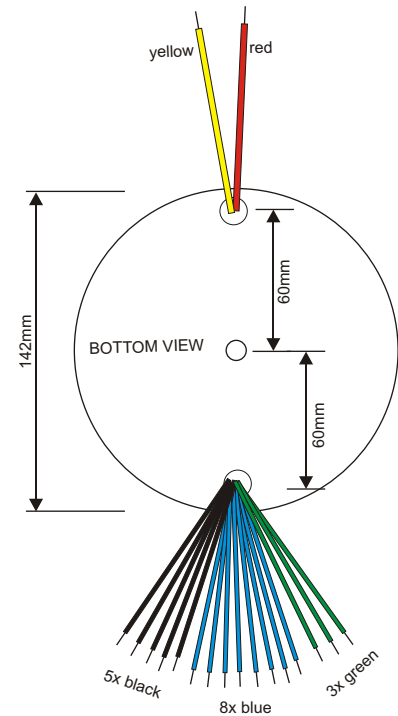


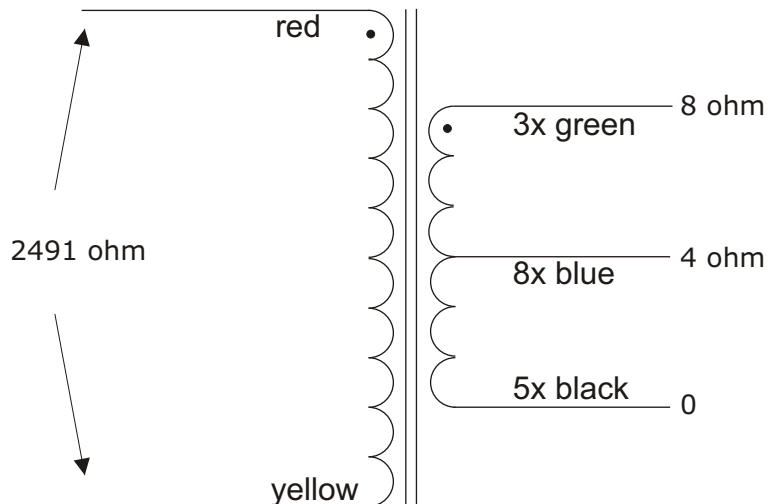
WIDE BANDWIDTH LOW LOSS TOROIDAL SINGLE ENDED OUTPUT TRANSFORMER

TYPE & APPLICATION	:	VDV-3025-SE; 300B & equivalents
Primary Impedance	:	Raa 2.491 [k]
Secondary Impedance	:	Rls 4 []
Turns Ratio Np/Ns	:	Ratio 24.957 []
-1 dB Frequency Range [Hz] - [kHz]	:	flf 23.371 fhf 21.98
-1 dB Frequency Range [Hz] - [kHz]	:	fl1 9.968 fh1 49.057
-3 dB Frequency Range [Hz] - [kHz]	:	fl3 5.073 fh3 91.218
Nominal Power (1)	:	Pn 13 [W]
Full Power Bandwidth Starting at	:	fPnom 20 [Hz]
Total Primary Inductance (2)	:	Lp 18 [H]
Primary Leakage Inductance to sec.	:	lsp 5.5 [mH]
Effective Primary Capacitance	:	Cip 1 [nF]
Saturation Primary Current	:	2 Idc 204.312 [mA]
Total Primary DC Resistance	:	Rip 40 []
Total Secondary DC Resistance	:	Ris 0.1 []
Tubes Plate Resistance	:	rp 0.7 [k]
Insertion Loss	:	lloss 0.175 [dB]
Q-factor 2-nd order HF roll-off (5)	:	Q 0.487 []
HF roll-off Specific Frequency (5)	:	Fo 147.208 [kHz]
Quality Factor = Lp/Lsp (5)	:	QF 3.273*10 ³ []
Quality Decade Factor (5)	:	QDF 3.515 []
Tuning Factor (5)	:	TF 5.494 []
Tuning Decade Factor (5)	:	TDF 0.74 []
Frequency Decade Factor (4,5)	:	FDF 4.255 []

DESIGNED BY
VANDERVEEN



- (1): calculated and measured under the conditions of applying 0.5*Idc-sat.
 (2): 230 Volt 50 Hz measurement over the total primary winding
 (3): calculated and measured at 1 mWatt 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, 97-th AES Convention San Francisco, preprint
 (C): copyright Vanderveen 1997, Version 1.3; design date



13 Watt single ended power
 Primary impedance 2491 ohm
 Power bandwidth 20Hz - 91kHz (-3dB)

Height 72 mm
 Diameter 142 mm
 Weight 4.6kg
 All leads solid and approx 200mm long
 Fully potted in aluminium black textured shell

Amendments:
 March 2009: Size of potting shell reduced to 142 x 72mm.



Industrieweg 14
 NL-7161BX NEEDE
 The Netherlands

P O - B o x 2 7
 NL-7160AA NEEDE
 The Netherlands
 Tel.+31 (0)545 28 3456
 Fax+31 (0)545 28 3457

info@amplimo.nl
<http://www.amplimo.nl>

HB

02-03-2003

VDV3025SE

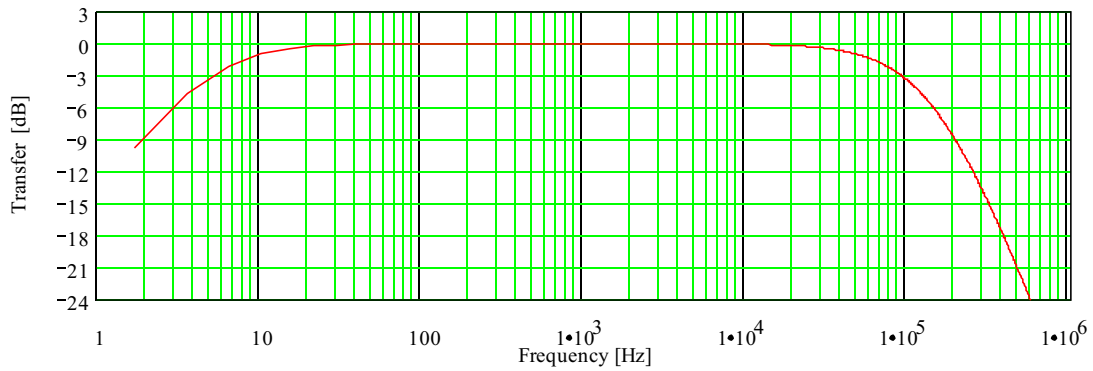
WIDE BANDWIDTH TOROIDAL
SINGLE ENDED
 TUBE OUTPUT TRANSFORMER

© Copyright Amplimo BV

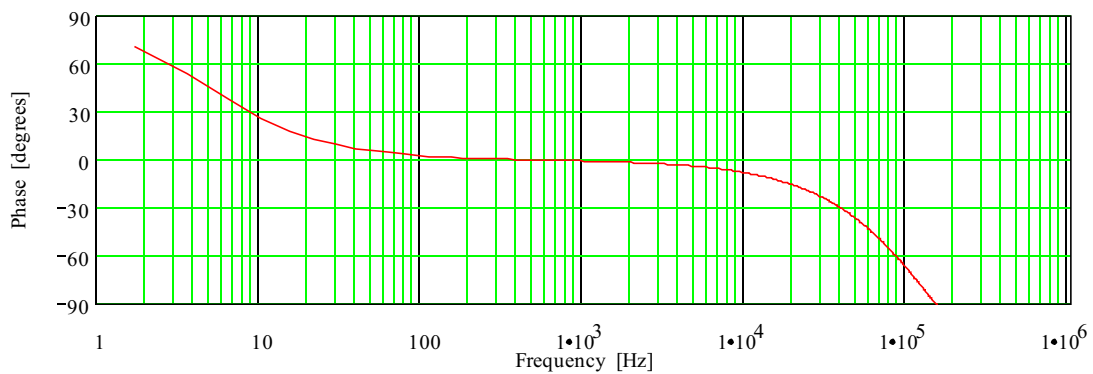
WIDE BANDWIDTH LOW LOSS TOROIDAL SINGLE ENDED OUTPUT TRANSFORMER

VDV - 3025 - SE

[dB] Frequency Response; Vertical: 3 dB/div; Horizontal: 1 Hz to 1 MHz (3)



[degrees] Phase Response; Vertical: 30 deg./div; Horizontal: 1 Hz to 1 MHz



[degrees] Differential Phase Response; vert. 30 deg./div; hor. 1 Hz to 1 MHz
See: W.M.Leach, Differential Time Delay.; JAES sept.89 pp.709-715

