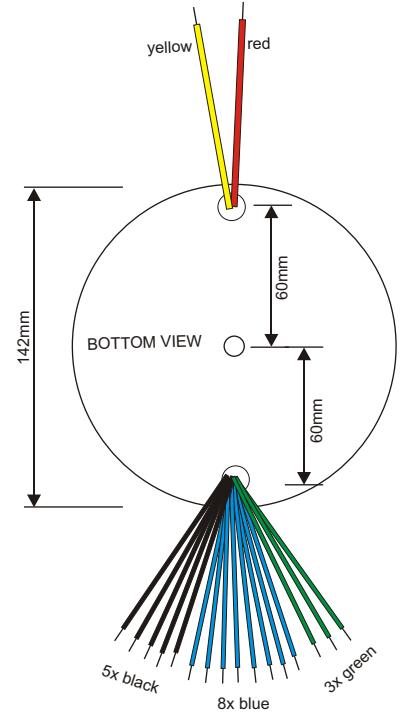


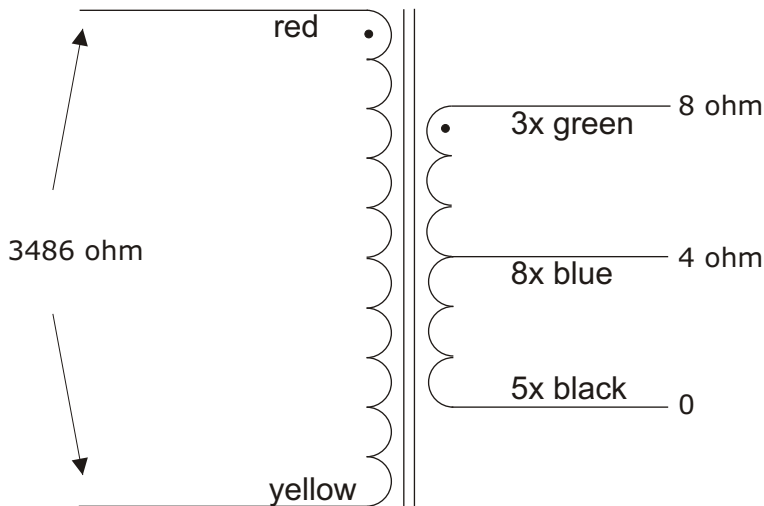
WIDE BANDWIDTH LOW LOSS TOROIDAL SINGLE ENDED OUTPUT TRANSFORMER

VANDESIGNED BY
VANDERVEEN

TYPE & APPLICATION	:	VDV-3035-SE; 300B & equivalents	
Primary Impedance	:	Raa 3.486	[k]
Secondary Impedance	:	Rls 4	[]
Turns Ratio Np/Ns	:	Ratio 29.522	[]
-1 dB Frequency Range [Hz] - [kHz]	:	flf 16.233	fhf 21.806
-1 dB Frequency Range [Hz] - [kHz]	:	fl1 6.924	fh1 48.58
-3 dB Frequency Range [Hz] - [kHz]	:	fl3 3.524	fh3 89.949
Nominal Power (1)	:	Pn 13	[W]
Full Power Bandwidth Starting at	:	fPnom 20	[Hz]
Total Primary Inductance (2)	:	Lp 28	[H]
Primary Leakage Inductance to sec.	:	lsp 7	[mH]
Effective Primary Capacitance	:	Cip 1.1	[nF]
Saturation Primary Current	:	2 Idc 172.719	[mA]
Total Primary DC Resistance	:	Rip 50	[]
Total Secondary DC Resistance	:	Ris 0.1	[]
Tubes Plate Resistance	:	rp 0.7	[k]
Insertion Loss	:	lloss 0.168	[dB]
Q-factor 2-nd order HF roll-of (5)	:	Q 0.493	[]
HF roll-off Specific Frequency (5)	:	Fo 142.54	[kHz]
Quality Factor = Lp/Lsp (5)	:	QF 4*10 ³	[]
Quality Decade Factor (5)	:	QDF 3.602	[]
Tuning Factor (5)	:	TF 6.382	[]
Tuning Decade Factor (5)	:	TDF 0.805	[]
Frequency Decade Factor (4,5)	:	FDF 4.407	[]




- (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 transferred
- (5): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal Output Transformers, 97-th AES Convention San Francisco, preprint copyright Vanderveen 1997, Version 1.3; design date
- (C):



13 Watt single ended power
Primary impedance 3486ohm
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

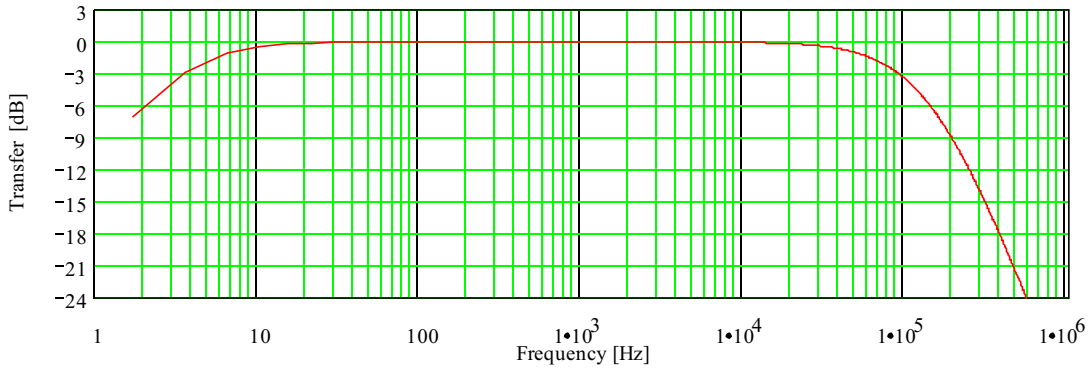
Amendments:
March 2009: Size of potting shell reduced to 142 x 72mm.

	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	HB	02-03-2003	VDV3035SE / PAT3035SE
	info@amplimo.nl http://www.amplimo.nl			
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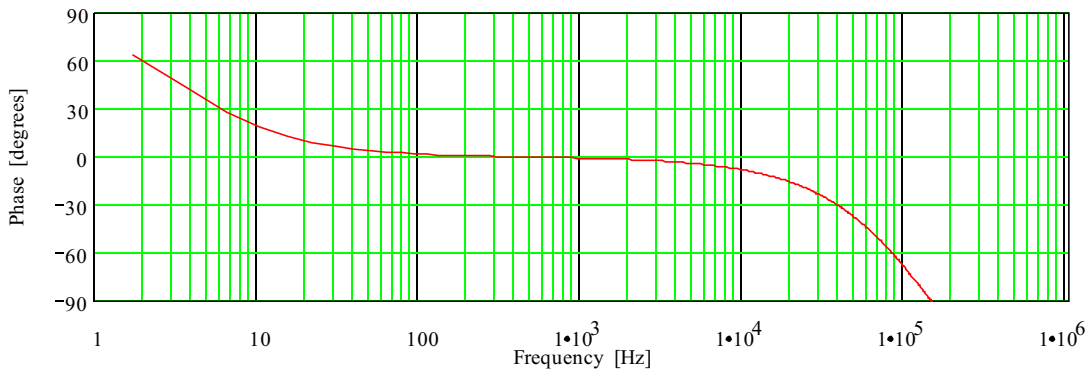
WIDE BANDWIDTH LOW LOSS TOROIDAL SINGLE ENDED OUTPUT TRANSFORMER

VDV - 3035 - 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

