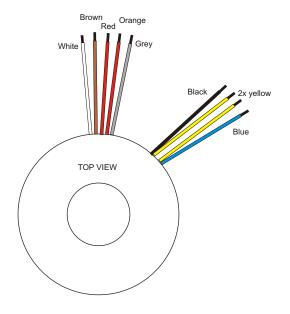
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

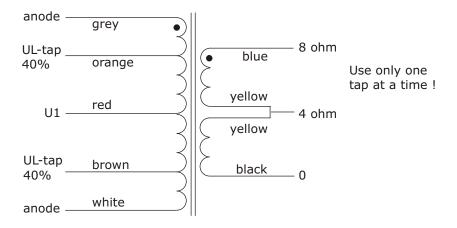
Type and Application	:	3A524-UL: VDV dedic	ated design
Primary Impedance	:	Raa 3.545	[k]
Secondary Impedance	:	Rls 8	[]
Turns Ratio Np/Ns	:	Ratio 21.05	[]
Ultra Linear Tapping at	:	tap 40	[%]
1 dB Frequency Range [Hz to kHz]	(3):	flf 3.277	fhf 21.52
-1 dB Frequency Range [Hz to kHz]	(3):	fl1 1.398	fh1 26.34
-3 dB Requency Range [Hz to kHz]	(3):	fl3 0.711	fh3 33.70
Nominal Power (1)	:	Pn 40	[W]
- 3 dB Power Bandwidth starting at	:	fu 27	[Hz]
Total primary Inductance (2)	:	Lp 764	[H]
Primary Leakage Inductance	:	lsp 16.6	[mH]
Effective Primary Capacitance	:	cip 1.79	[nF]
Total Primary DC Resistance	:	Rip 72.9	[]
Total Secondary DC Resistance	:	Ris 0.423	[]
Tubes Plate Resistance per section	:	ri 20	[k]
Insertion Loss	:	Iloss 0.308	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q 0.789	[]
HF roll-off Specific Frequency (5)	:	Fo 30.554	[kHz]
Quality Factor (5)	:	QF 4.602•10 ⁴	[]
Quality Decade Factor = log(QF) (5)) :	QDF 4.663	[]
Tuning Factor (5)	:	TF 1.03	[]
Tuning Decade Factor = log(TF) (5)	:	TDF 0.013	[]
Frequency Decade Factor (4,5)	:	FDF 4.676	[]





- (1): calculated under the conditions of balancing the DC-currents
- and the AC-anode voltages of the powertubes driving the transformer
- (2): (3):
- maximum value, measured over secondary, transfered to primary calculation at 1 mWatt in RIs; ri and RIs are pure Ohmic defined as FDF = log(fh3/fl3) = number of frequency decades transfered
- (4): (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; design date..

Always connect the two red wires together Always connect the two yellow wires together diameter91mm height35mm mounting kit supplied





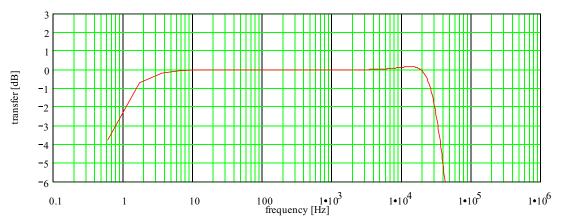
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3A524-UL

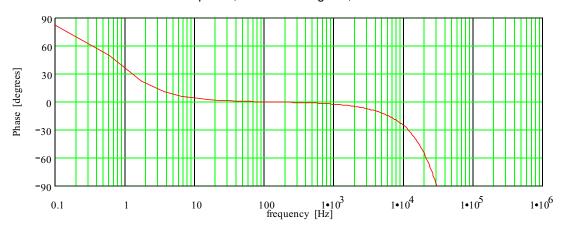
Wide bandwith toroidal tube output transformer with UL-taps

WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER; 3A524-UL

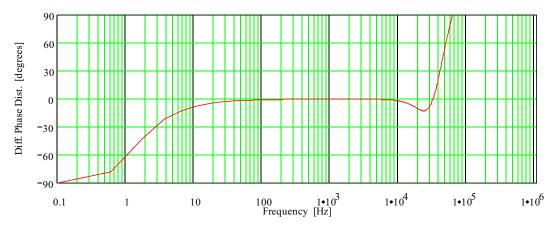
Frequency Response; Vertical 1 dB/div; Horizontal .1 Hz to 1 MHz (3)



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



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