SPECIALIST TOROIDAL PUSH-PULL OUTPUT TRANSFORMER

Type and Application	:	**VDV-4070-SSCR-PPS**	
Primary Impedance	:	Raa = 3.998	[kΩ]
Secondary Impedance	:	Rls = 4	[Ω]
Turns Ratio Np/Ns	:	Ratio = 31.615	[ ]
UL-tap	:	tap = 40	[%]
Cathode Feedback Ratio	:	cfb = 0	[%]
-.1 dB Frequency Range [Hz to kHz] (3)	:	flf = 2.987	fhf = 41.705
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 1.274	fh1 = 82.574
-3 dB Requency Range [Hz to kHz] (3)	:	fl3 = 0.648	fh3 = 132.113
Nominal Power (1)	:	Pn = 70	[W]
- 3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	Lp = 668	[H]
Primary Leakage Inductance	:	lsp = 3.2	[mH]
Effective Primary Capacitance	:	cip = 0.514	[nF]
Total Primary DC Resistance	:	Rip = 86	[Ω]
Total Secondary DC Resistance	:	Ris = 0.104	[Ω]
Tubes Plate Resistance per section	:	ri = 4	[kΩ]
Insertion Loss	:	Iloss = 0.202	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.62	[ ]
HF roll-off Specific Frequency (5)	:	Fo = 153.174	[kHz]
Quality Factor (5)	:	$QF = 2.087 \times 10^5$	[ ]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.32	[ ]
Tuning Factor (5)	:	TF = 0.976	[ ]
Tuning Decade Factor = log(TF) (5)	:	TDF = –0.011	[ ]
Frequency Decade Factor (4,5)	:	FDF = 5.309	[ ]

(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
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