SPECIALIST TOROIDAL PUSH-PULL OUTPUT TRANSFORMER

Type and Application	:	**VDV-1070-UC-PPS**	
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 = 0.367	fhf = 114.824
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.156	fh1 = 249.653
-3 dB Requency Range [Hz to kHz] (3)	:	fl3 = 0.08	fh3 = 441.47
Nominal Power (1)	:	Pn = 70	[W]
- 3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	$Lp = 1.768 \times 10^3$	[H]
Primary Leakage Inductance	:	lsp = 0.971	[mH]
Effective Primary Capacitance	:	cip = 0.349	[nF]
Total Primary DC Resistance	:	Rip = 67.2	[Ω]
Total Secondary DC Resistance	:	Ris = 0.122	[Ω]
Tubes Plate Resistance per section	:	ri = 0.53	[kΩ]
Insertion Loss	:	Iloss = 0.175	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.545	[ ]
HF roll-off Specific Frequency (5)	:	Fo = 606.987	[kHz]
Quality Factor (5)	:	$QF = 1.821 \times 10^6$	[ ]
Quality Decade Factor = log(QF) (5)	:	QDF = 6.26	[ ]
Tuning Factor (5)	:	TF = 3.047	[ ]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.484	[ ]
Frequency Decade Factor (4,5)	:	FDF = 6.744	[ ]

(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

Final specs can deviate 15% or improve without notice

Final specs can deviate 15% or improve without notice