

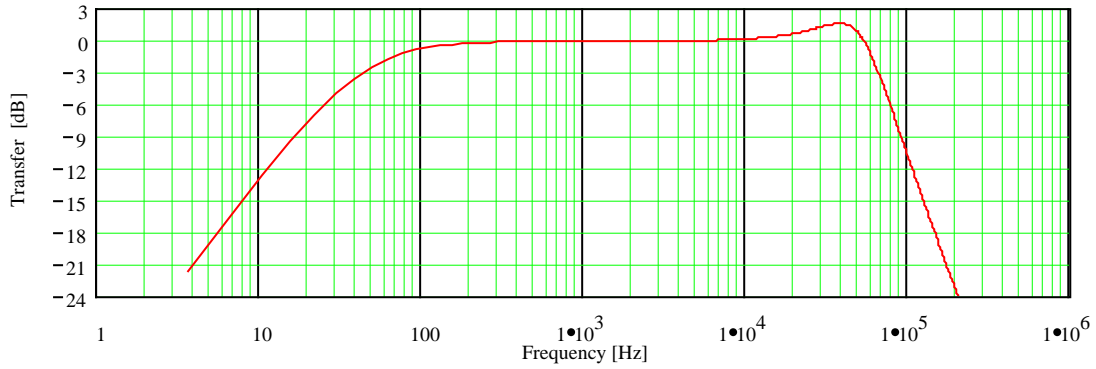
## AUREXX SINGLE ENDED OUTPUT TRANSFORMER

TYPE & APPLICATION	:	AUREXX OPT-SE	
Primary Impedance	:	Raa = 4.303	[kΩ]
Secondary Impedance	:	Rls = 8	[Ω]
Turns Ratio Np/Ns	:	Ratio = 23.191	[ ]
-.1 dB Frequency Range [Hz] - [kHz]	:	flf = 200.623	fhf = 54.555
-1 dB Frequency Range [Hz] - [kHz]	:	fl1 = 85.571	fh1 = 58.023
-3 dB Frequency Range [Hz] - [kHz]	:	fl3 = 43.547	fh3 = 66.013
Nominal Power (1)	:	Pn = 5	[W]
Full Power Bandwidth Starting at	:	fPnom = 20	[Hz]
Total Primary Inductance (2)	:	Lp = 15	[H]
Primary Leakage Inductance to sec.	:	lsp = 24.8	[mH]
Effective Primary Capacitance	:	Cip = 0.486	[nF]
Saturation Primary Current	:	2·Idc = 96.418	[mA]
Total Primary DC Resistance	:	Rip = 423	[Ω]
Total Secondary DC Resistance	:	Ris = 1.1	[Ω]
Tubes Plate Resistance	:	rp = 25	[kΩ]
Insertion Loss	:	lloss = 0.92	[dB]
Q-factor 2-nd order HF roll-off (5)	:	Q = 1.069	[ ]
HF roll-off Specific Frequency (5)	:	Fo = 50.484	[kHz]
Quality Factor = Lp/Lsp (5)	:	QF = 604.839	[ ]
Quality Decade Factor (5)	:	QDF = 2.782	[ ]
Tuning Factor (5)	:	TF = 2.506	[ ]
Tuning Decade Factor (5)	:	TDF = 0.399	[ ]
Frequency Decade Factor (4,5)	:	FDF =	[ ]

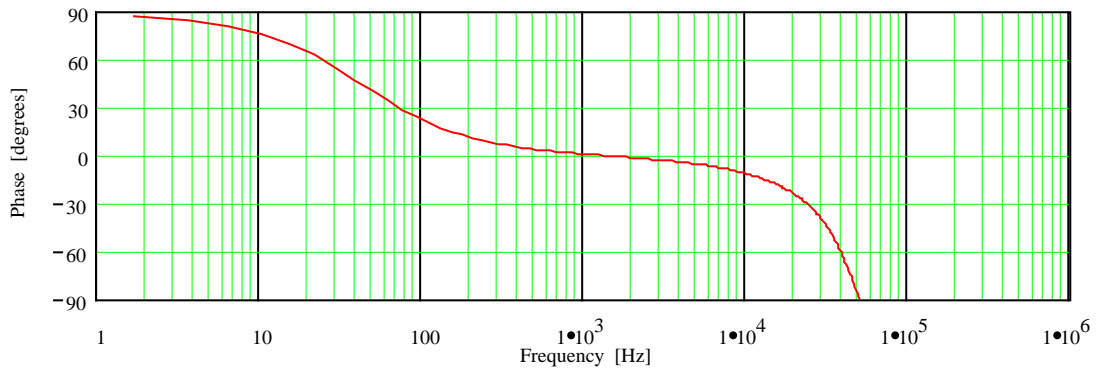
- (1): calculated and measured under the conditions of applying 0.5·Idc-sat.  
(2): 132 Volt 50 Hz measurement over the total primary winding  
(3): calculated and measured at 1 Watt in Rls; ri and Rls are pure Ohmic  
(4): defined as FDF = log(fh3/fl3) = number of frequency decades transfered  
(5): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal  
Output Transformers, 97-th AES Convention San Francisco, preprint  
(C): copyright Vanderveen 1997, Version 1.3; design date2-7-07; test

# AUREXX SINGLE ENDED OUTPUT TRANSFORMER

[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

