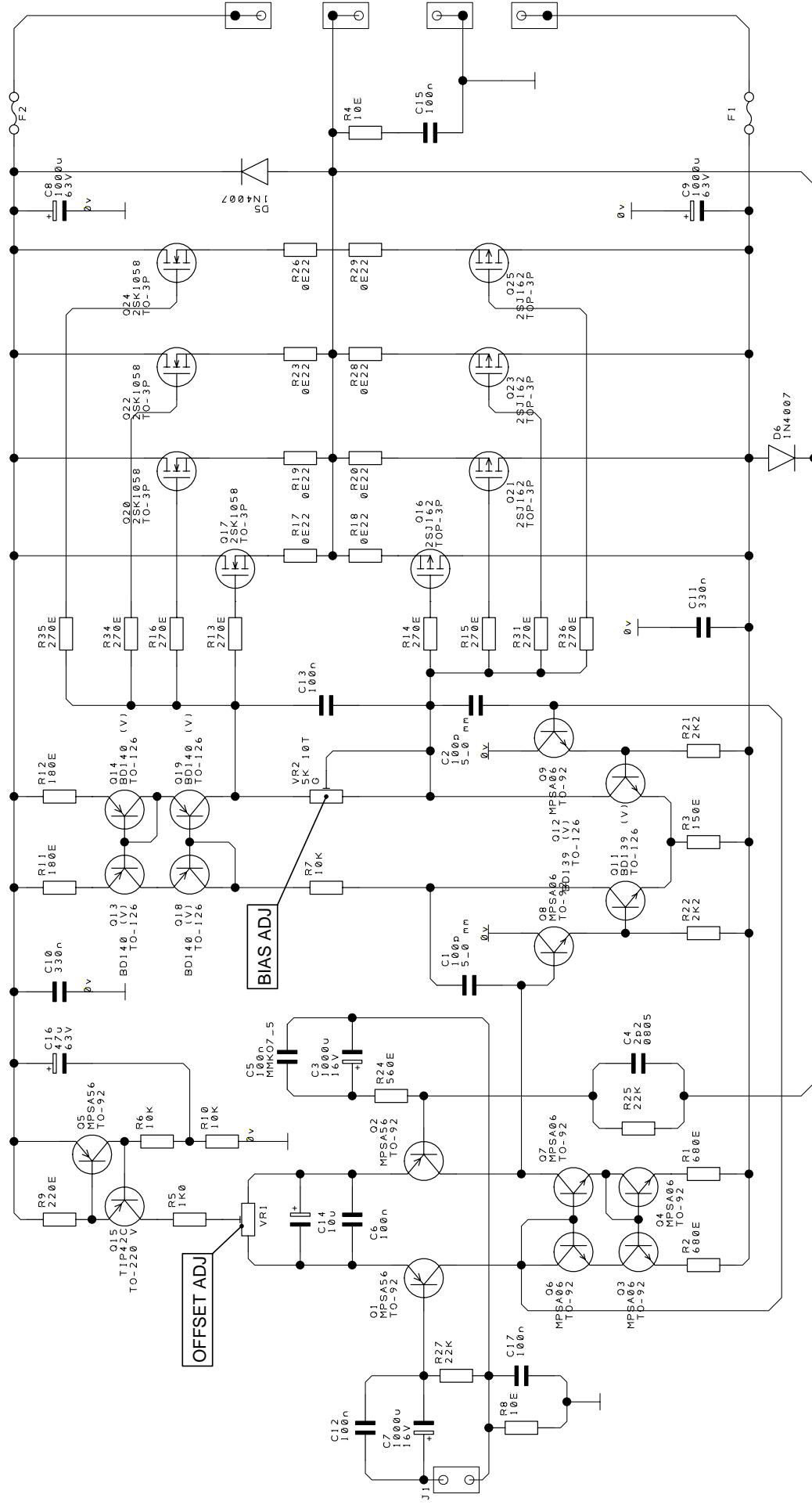


Radical Audio Synthesis

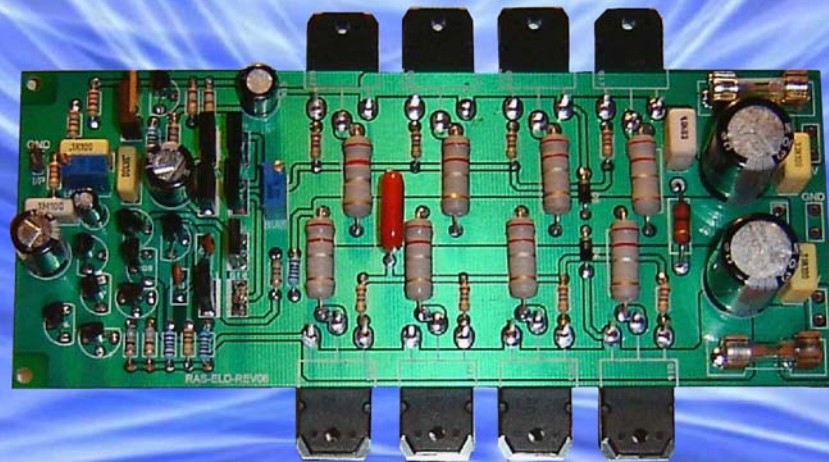
RAS-ELD Rev 06a

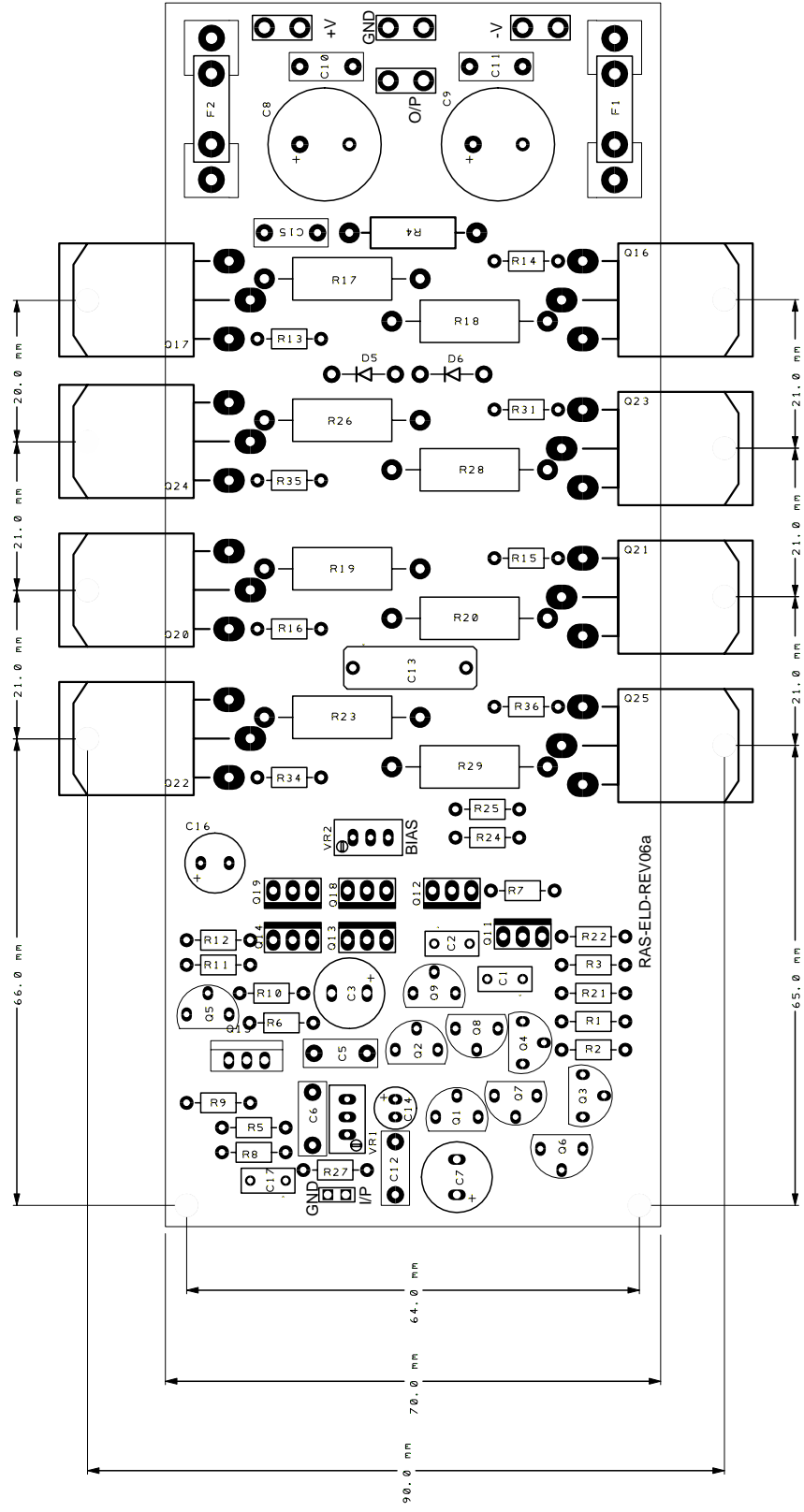
Design: Nico J Ras



Radical Audio Synthesis

120 watt Amplifier Module



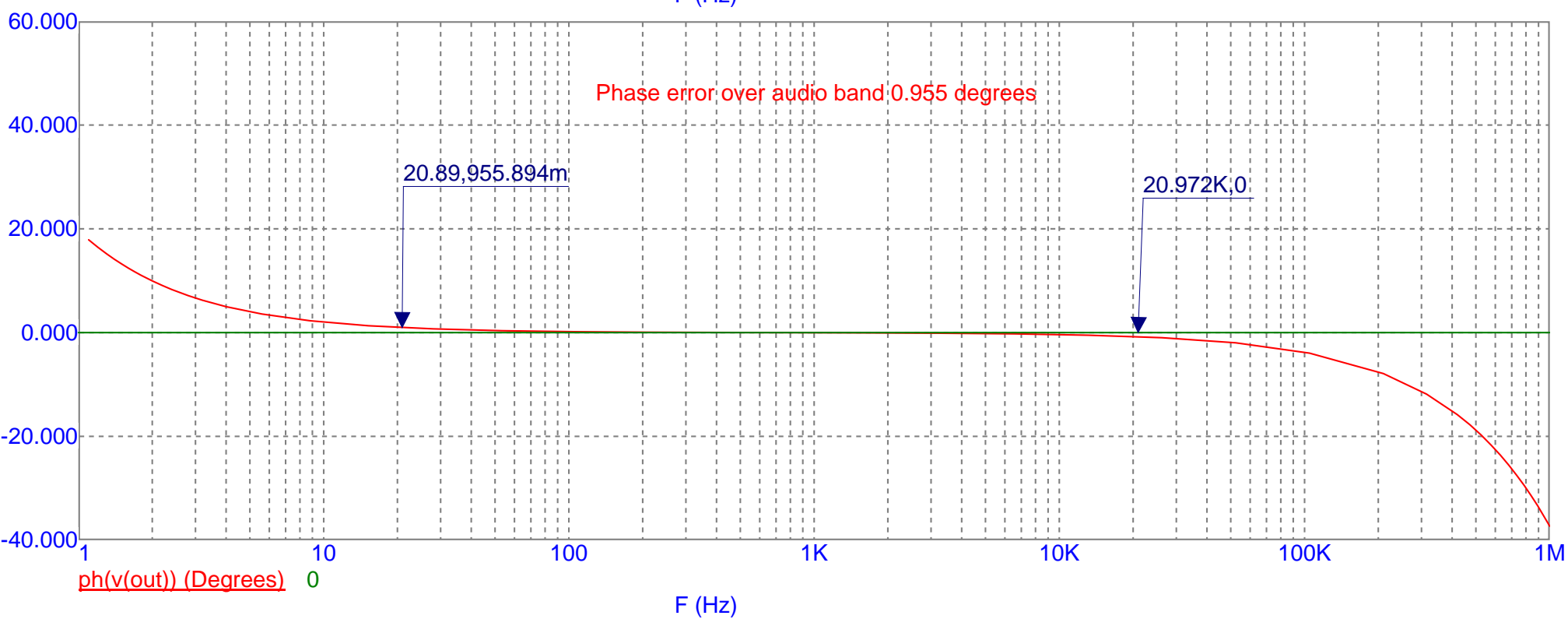
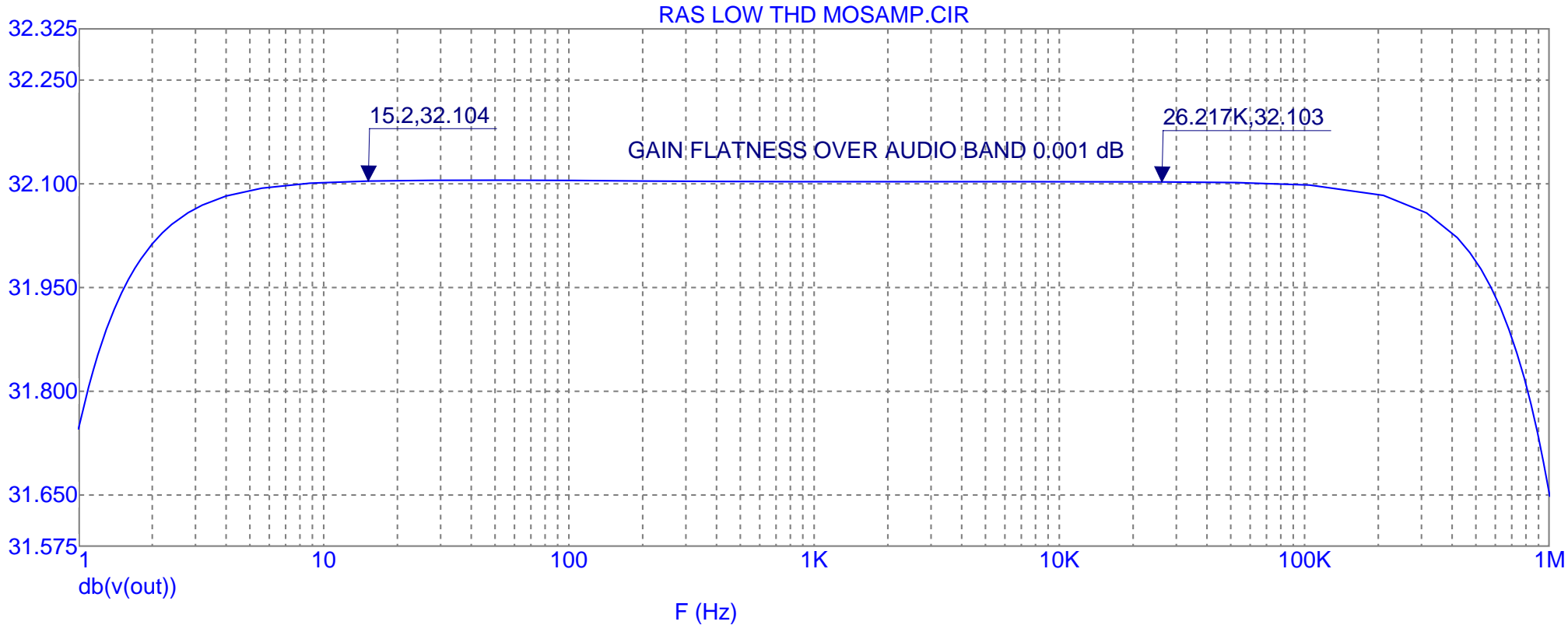


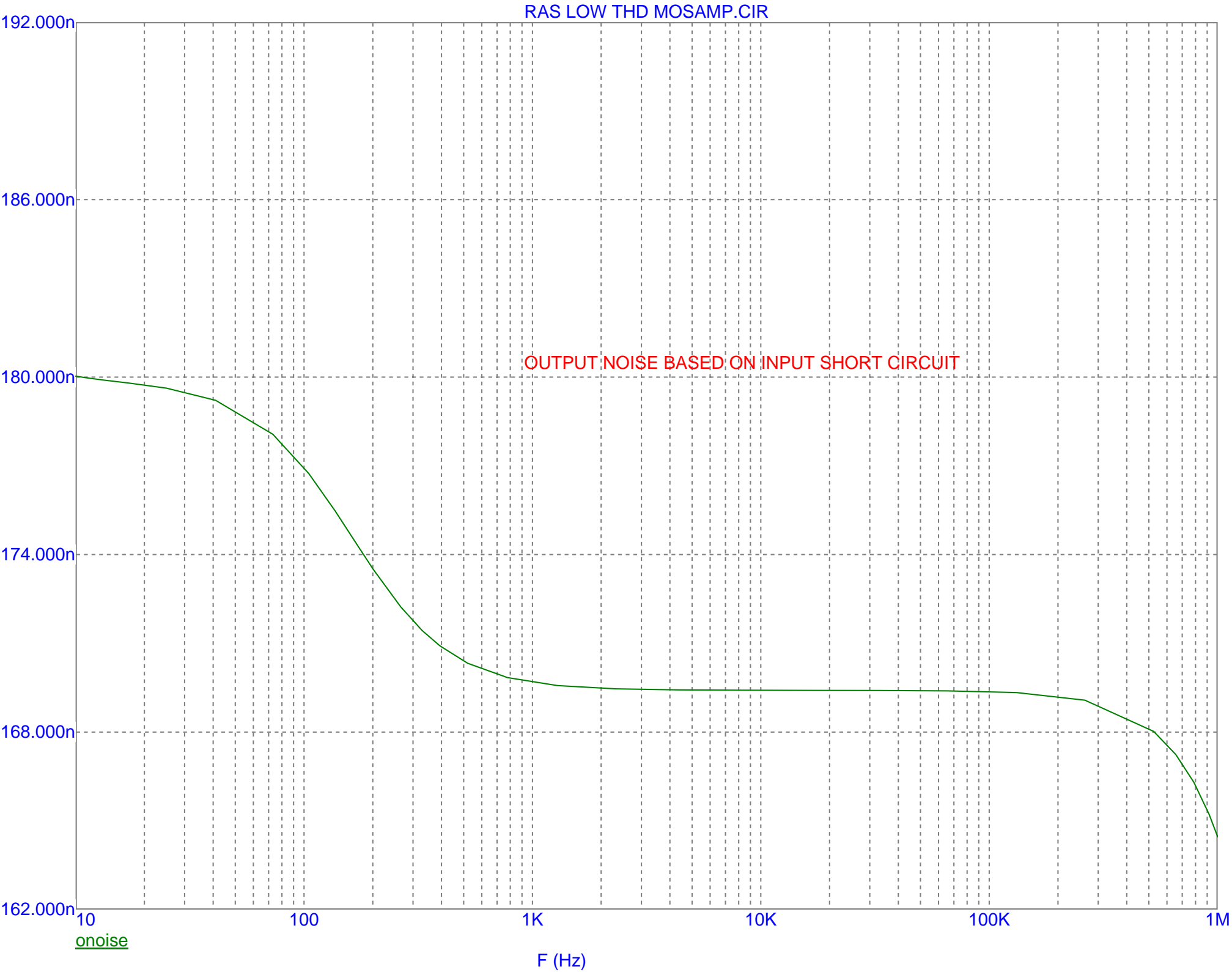
Cct	Ref	Description	Low Distortion Amp R06.1 sp Qty	Package/Size	Name
R17 R18 R19 R20 R23 R26 R28 R29		Resistor	8	5 Watt	0E22
C8 C9		Capacitor Elec Radial	2	63V	1000u
C3 C7		Capacitor Elec Radial	2	16V	1000u
C17		Capacitor Cerm 50V	1	5.0 mm	100n
C13		Capacitor MMK 400V	1	16mm	100n
C5 C6 C12 C15		Capacitor MMK	4	7.5mm	100n
C1 C2			2	5.0 mm	100p
VR1		Trim Pot 25 Turn	1	Top Adjust	100R
R8		Resistor	1	250mW	10E
R4		Resistor	1	1 Watt	10E
R6 R7 R10		Resistor	3	250mW	10K
C14		Capacitor Elec Radial	1	35V	10u
R3		Resistor	1	250mW	150E
R11 R12		Resistor	2	250mW	180E
R5		Resistor	1	250mW	1K0
D5 D6			2	DSC	1N4007
J1			1	DSC	2 Way Pin
R9		Resistor	1	250mW	220E
R25 R27		Resistor	2	250mW	22K
R13 R14 R15 R16 R31 R34 R35 R36		Resistor	8	250mW	270E
R21 R22		Resistor	2	250mW	2K2
C4		Capacitor Cerm 50V	1	0805	2p2

Low Distortion Amp R06.1 sp

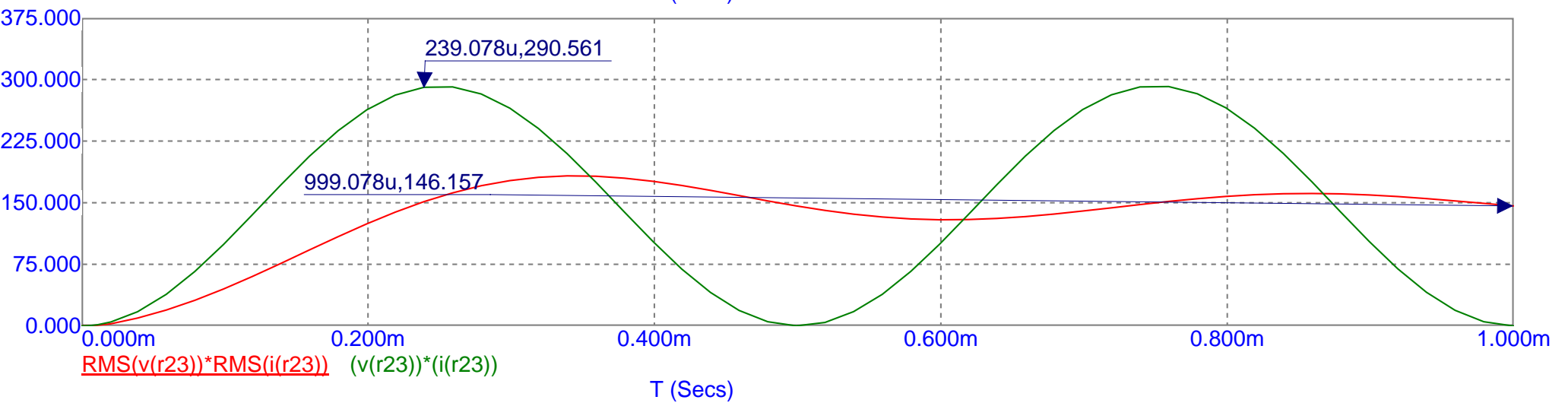
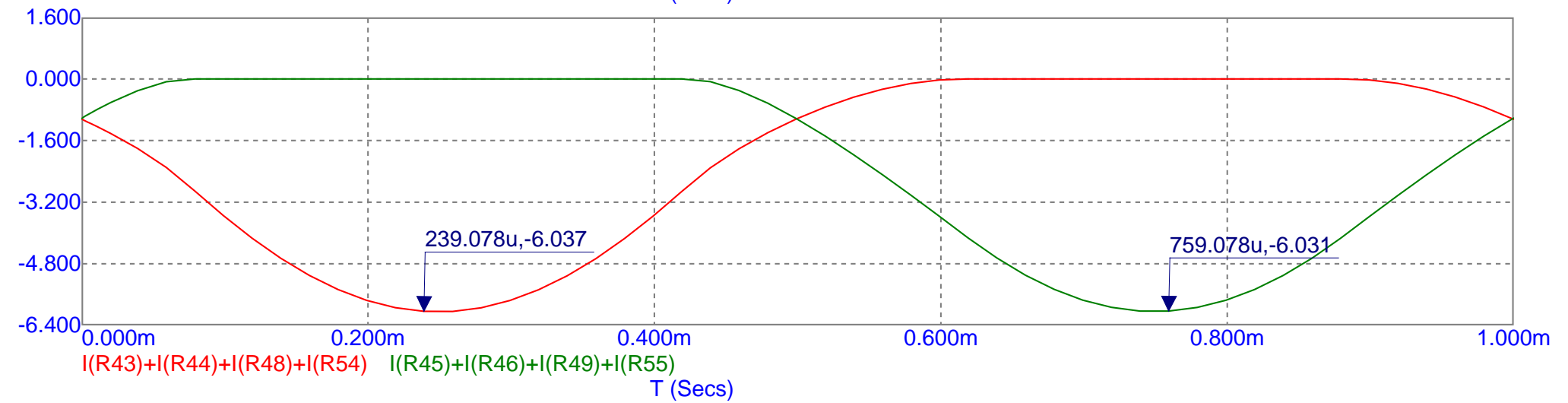
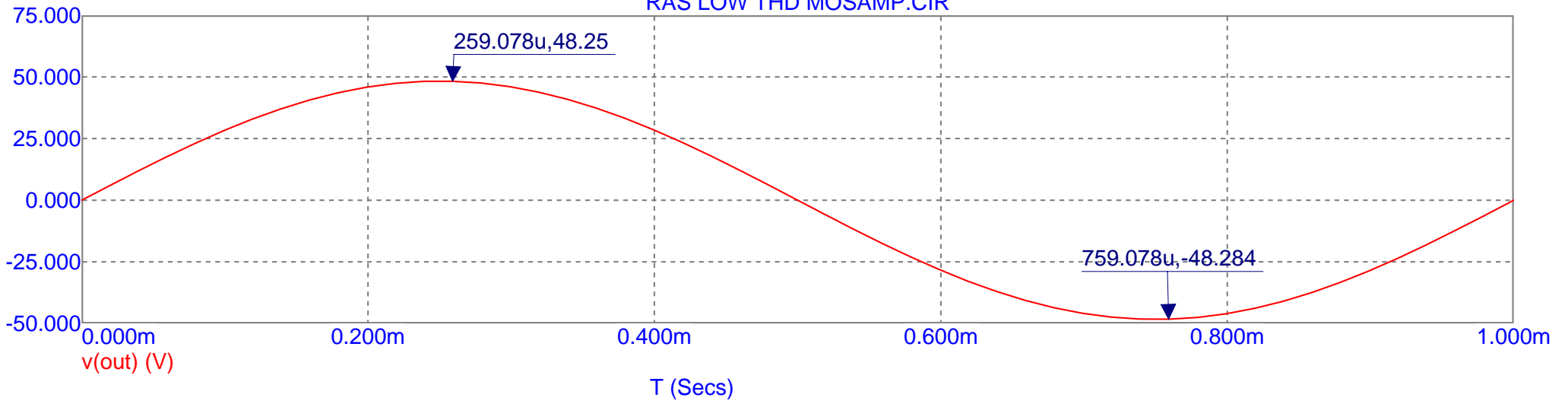
Q16 Q21 Q23 Q25	MOSFET	4	TOP-3P	2SJ162
Q17 Q20 Q22 Q24	MOSFET	4	T0-3P	2SK1058
C10 C11	Capacitor Cerm 50V	2	MMK07.5	330n
C16	Capacitor Elec Radial	1	63V	47u
R24	Resistor	1	250mW	560E
VR2	Trim Pot 25 Turn	1	Top Adjust	5K
R1 R2	Resistor	2	250mW	680E
Q11 Q12	Transistor	2	T0-126	BD139
Q13 Q14 Q18 Q19	Transistor	4	T0-126	BD140
P1 P2 P3 P4	Spade Connector	4	USER	6.3mm
F1 F2	Fuse 20mm	2	Fuse Glass 20mm PCB Mount	
Q3 Q4 Q6 Q7 Q8 Q9	Transistor	6	T0-92	MPSA06
Q1 Q2 Q5	Transistor	3	T0-92	MPSA56
Q15	Transistor	1	T0-220 V	TIP42C

RAS LOW THD MOSAMP.CIR

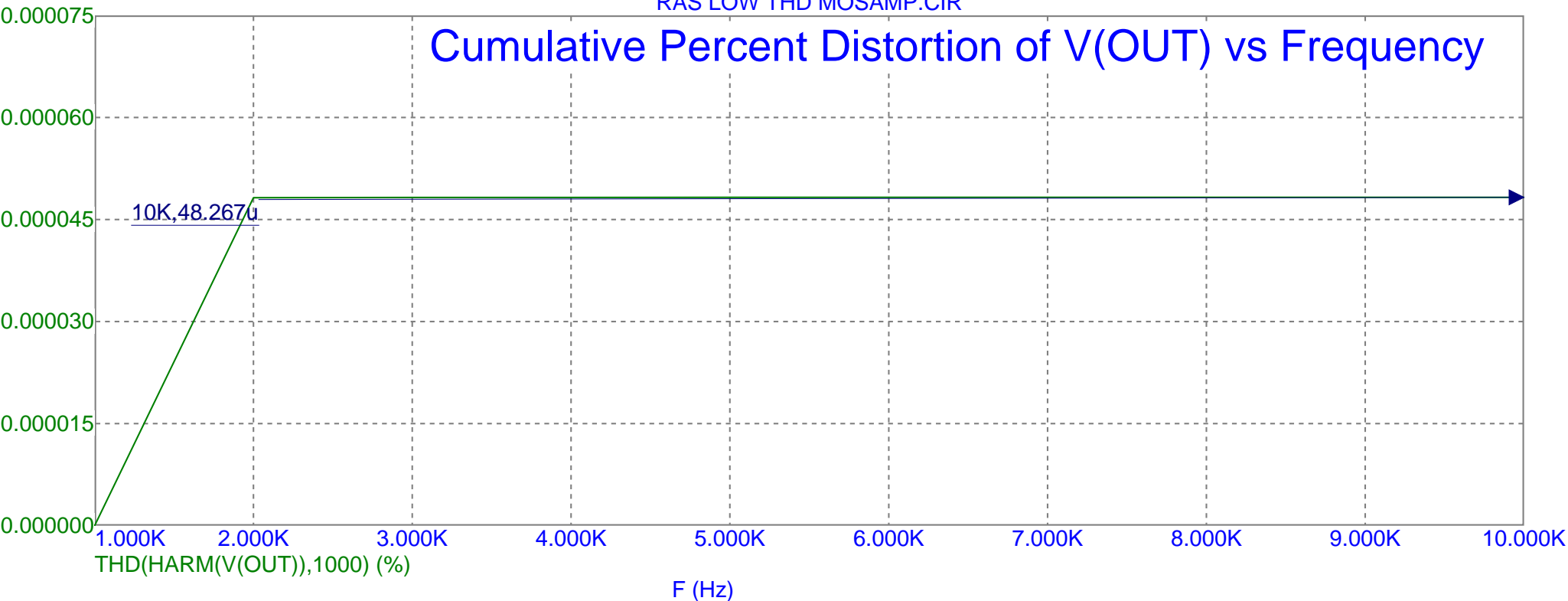




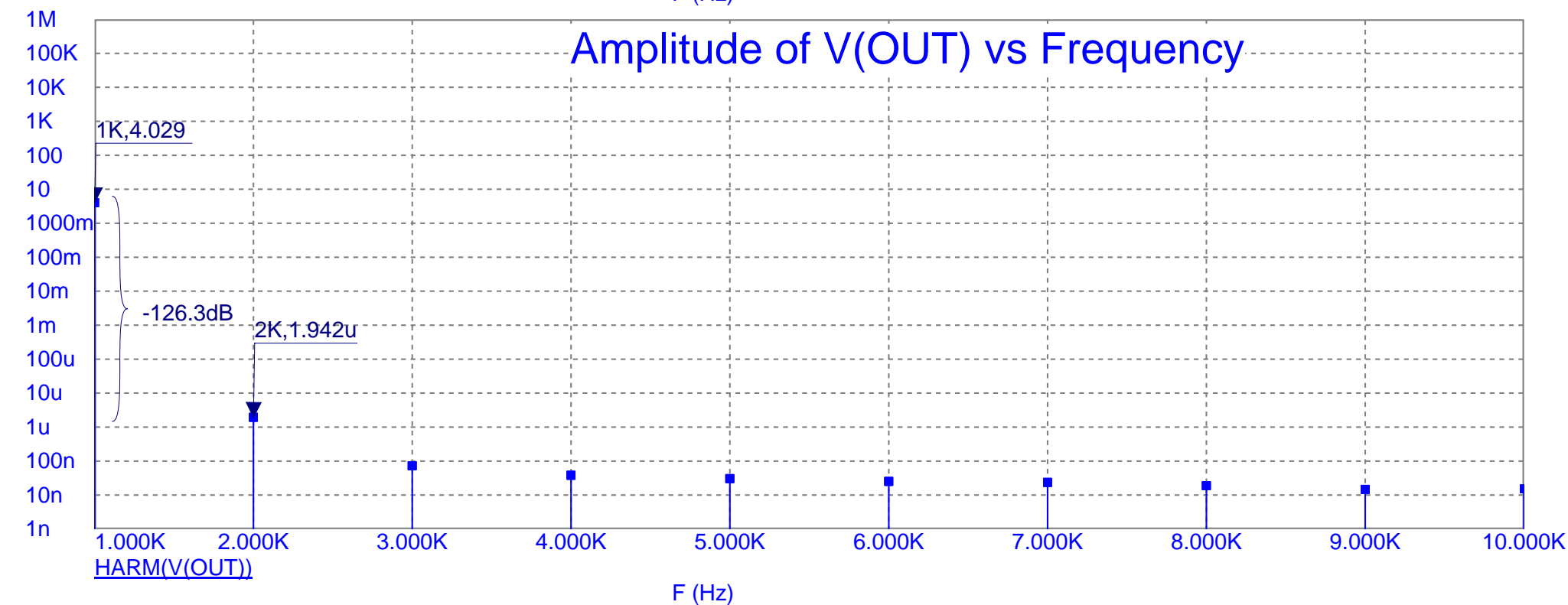
RAS LOW THD MOSAMP.CIR



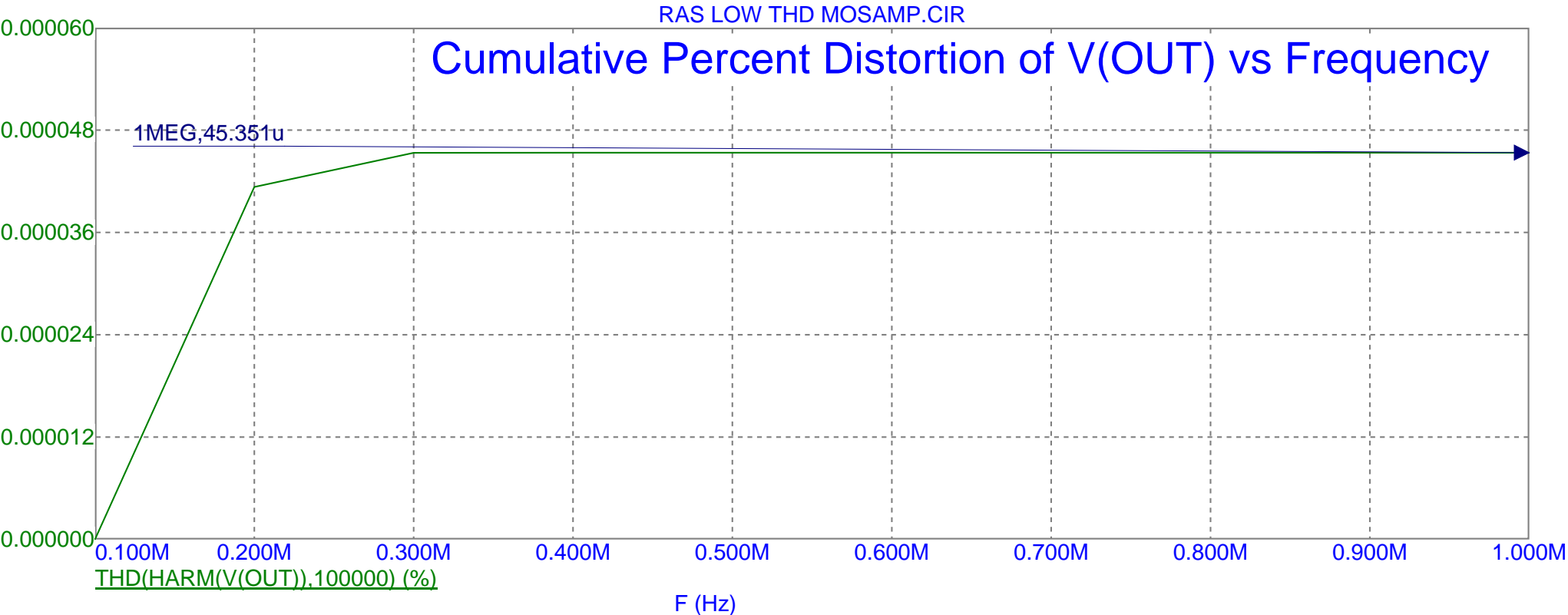
Cumulative Percent Distortion of V(OUT) vs Frequency



Amplitude of V(OUT) vs Frequency



Cumulative Percent Distortion of V(OUT) vs Frequency



Amplitude of V(OUT) vs Frequency

