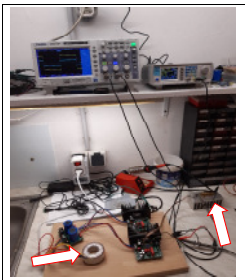


C-Amp v1.0 measurements



LM3886 tests with 30VA 2x18V_{ac} transformer and 8 Ohm resistor

Rating degrees:
poor/average/good/very good/excellent

No. 0/1	Reference - Toshiba SB-M2		
	Value	Type / Size	Manuf.
C in	4.7u/50V	elco tht	Marcon
C fb	100u	elco tht	Marcon
C xx	?	ceramic tht	?

Listening impressions

Noise/dist.: poor
Macrodynamic: average
Microdynamic, details: very good
Spaceness: very good
Mids, full-bodied: good
Highs: good
Chor, brass represent.: very good
Easy to listen: yes

Conclusion:

"cheap" sounding, but relatively accurate, fine details, transparent, and little weak mid, some very little grain in the highs (elco?), good chor/brass representation

No. 0/2	Reference - LM3886 std.		
	Value	Type / Size	Manuf.
C (in)	1u	MKP	WIMA
Ci (fb)	10u	MKS	WIMA
Cc (C4)	100p	FKP	WIMA
Cf	-		
Rv	-		
L / R	-		

Listening impressions

Noise/dist.: good
Macrodynamic: good
Microdynamic, details: good
Spaceness: good
Mids, full-bodied: good
Highs: good/average
Chor, brass represent.: average
Easy to listen: yes but little boring

Conclusion:

typ. mediocre amp, good all-round sound, but slightly rolled-off highs, and some lacks of microdetails, chor/brass sounds dull

No. 1	Composite LM3886 v/1		
	Value	Type / Size	Manuf.
C in, C fb	-	(DC-servo)	
C1	180p	COG / tht	noname
C2	0	-	-
C3	100p	COG / tht	noname
C4	0	-	-
RS	1.3k/1k/850R	thin / 1206	(+ axial)

Listening impressions

Noise/dist.: very good
Macrodynamic: very good
Microdynamic, details: good
Spaceness: good
Mids, full-bodied: good
Highs: good/average
Chor, brass represent.: good/average
Easy to listen: no

Conclusion:

very good performance on paper, but very frustrating highs makes the listening not pleasant, microdynamic and space could be better, chor/brass sounds average

No. 2	Composite LM3886 /v2		
	Value	Type / Size	Manuf.
C in, C fb			
C1			
C2			
C3			
C4			
R5			

Listening impressions

Noise/dist.:
Macrodynamic:
Microdynamic, details:
Spaceness:
Mids, full-bodied:
Highs:
Chor, brass represent.:
Easy to listen:

Conclusion:

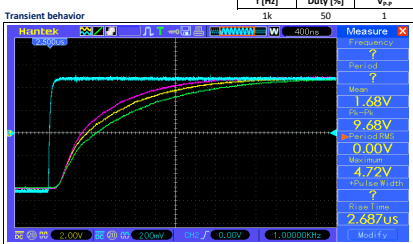
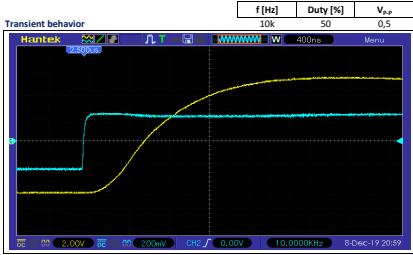
Main quality factors for "easy to listen" (in order):

- 1 Microdetails, spaceness (transparency, airiness), quality of highs (upper mid, lower high)
- 2 Macrodynamic, quality of mids (full-bodiedness)
- 3 Noise / distortion (of course a minimum level must be achieved)

Considerations, TO-DO:

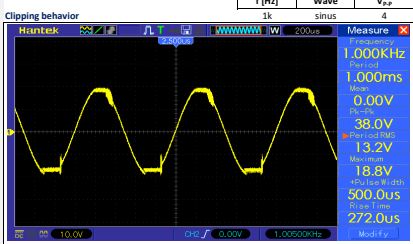
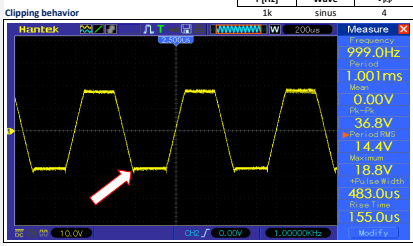
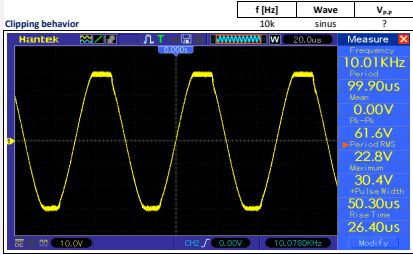
- 1 Excellent transient response is not a must for good mid/high quality and good microdetails
- 2 Electrolytics in the signal path causes maybe some grain in the highs, but not necessarily degrades the sound quality mainly
- 3 Most important components to check for quality: C1 (opa feedback cap), opamp (LM4562, LM49720, ect.)
- 4 C1...: Cheap ceramic caps could be sound too harsh, foil caps maybe dull (check!?)

Transient



R1 = 1.3k - green; 1.0k - yellow; 850R - purple

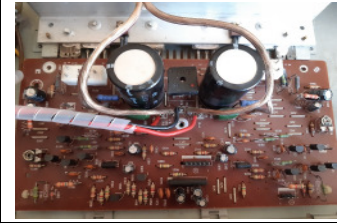
Listening test with 1.3k!



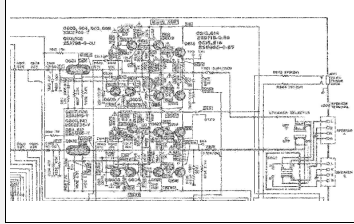
Clipping shape doesn't change with RS value bw. 850R-1.3k (R1=330R!)

Clipping
Hic-N
Transfer

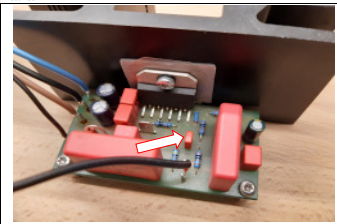
Pictures



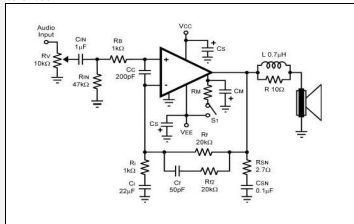
Schematic



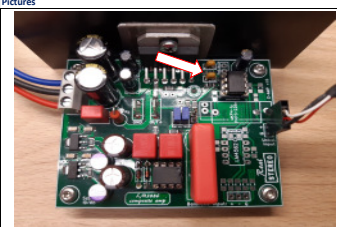
Pictures



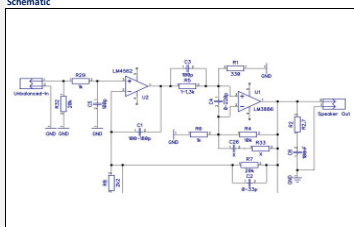
Schematic



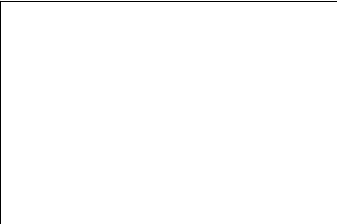
Pictures



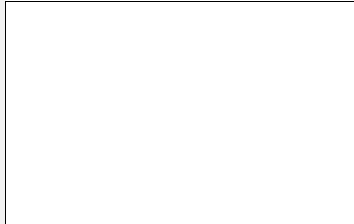
Schematic



Pictures



Schematic



Schematic