

# **EVAL6562-80W**

## L6562-80W high performance transition mode PFC evaluation board

Data Brief

### **General description**

The L6562 is a current-mode PFC controller operating in Transition Mode (TM). Pin-to-pin compatible with the predecessor L6561, it offers improved performance. The L6562 - 80W Evaluation Board is specific for 80W PFC preregulator and designed to operate in wide-range mains.



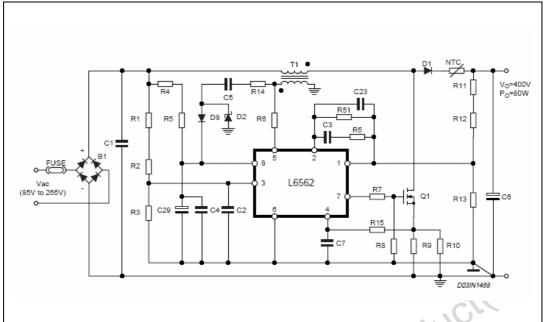
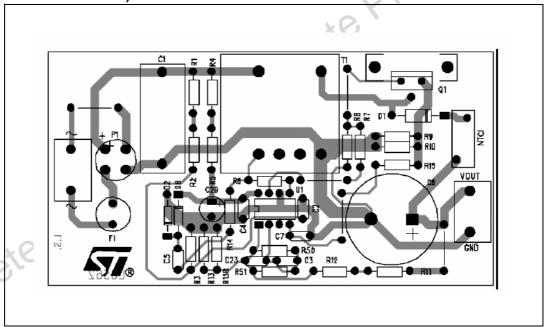


Figure 1. EVAL6562 - 80W schematic

Figure 2. EVAL6562 - 80W : PCB and component layout (top view, real size: 57 x 108mm)



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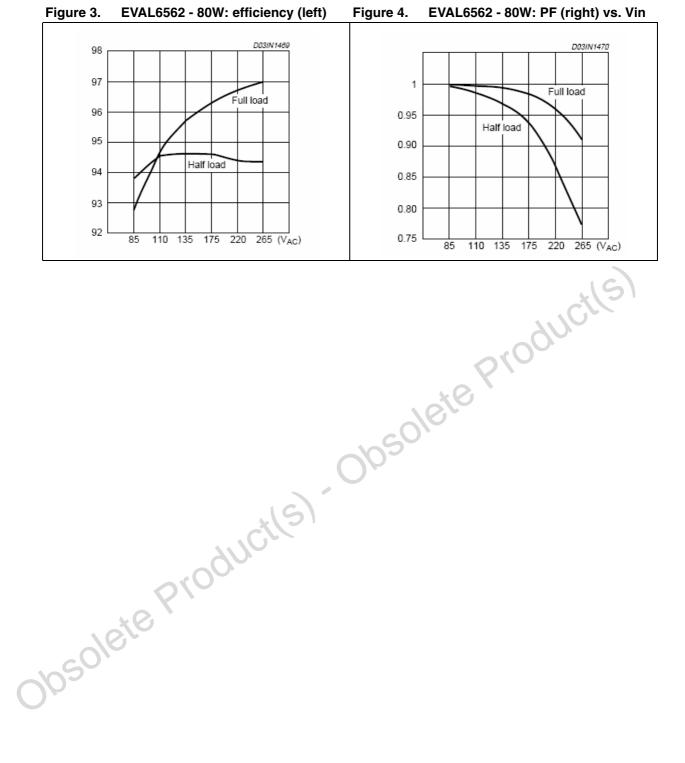
Table 1. Part list

Parameters	Values	
R1	750ΚΩ1%	
R2	750ΚΩ1%	
R3	10ΚΩ1%	
R4, R5	180ΚΩ5%	
R6	68ΚΩ5%	
R7	33Ω	
R8	47ΚΩ	
R9, R10	0.82Ω 0.6W	
R11, R12	750ΚΩ1%	
R13	9.53ΚΩ 1%	
R14	100Ω 5%	
R15	shorted	
R50	12ΚΩ	
R51	N.A	
NTC	2.5	
C1	0.47μF 400V	
C2	10nF	
С3	0.68μF	
C4	100nF	
C5	12nF	
C6 S	47μF, 450V	
C7	N.A	
C23	33nF	
C29	22μF, 25V	
D1	STTH1L06	
D2	1N5248B	
D8	1N4148	
Q1 (TO220)	STP8NM50	
BRIDGE	DF06M	
FUSE	4A/250V	

- T1: Boost inductor spec (ITACOIL E2543/E)
  - E25x13x7 core, 3C85 ferrite
  - 1.5mm gap for 0.7mH primary inductance
  - Primary: 105 turns (20x0.1mm)
  - Secondary: 11 turns (0.1mm)

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EVAL6562\_80W Revision history

# 1 Revision history

Table 2. Revision history

Date	Revision	Changes
03-Nov-2006	1	First issue

Obsolete Produci(s). Obsolete Produci(s)

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