



**THE DATASHEET OF
EVAL6562-250W**





EVAL6562-250W

L6562-250W High performance TM PFC

Data Brief

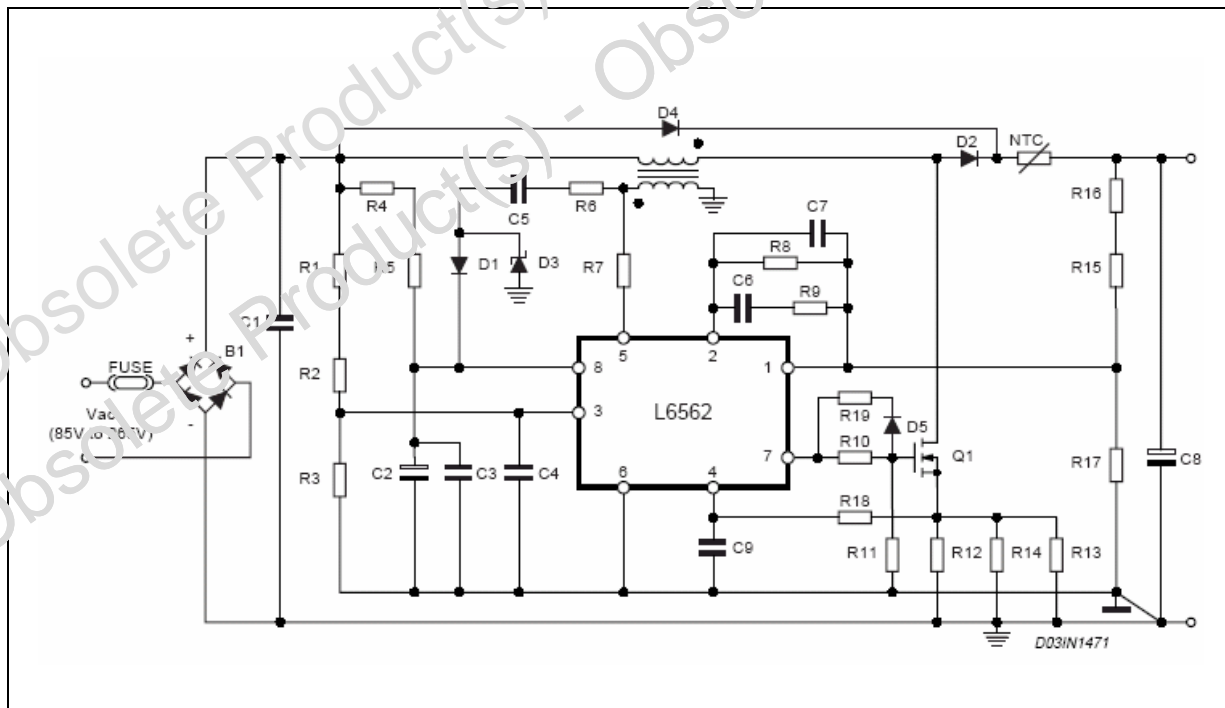
General description

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 - 250W Evaluation Board is specific for 250W PFC pre-regulator and designed to operate in wide-range mains.



Evaluation board

EVAL6562 - 250W schematic



1 Part list

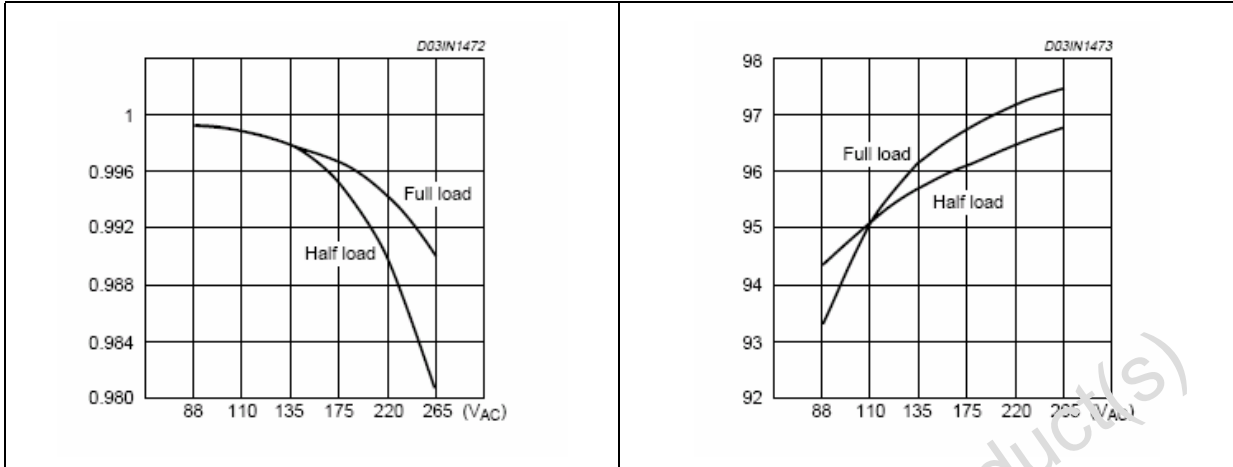
Table 1. Part list

| Parameters | Values |
|---------------|--------------|
| R1, R2 | 910KΩ 1% |
| R3 | 13KΩ 1% |
| R4, R5 | 180KΩ 5% |
| R6 | 100Ω 5% |
| R7 | 47KΩ 5% |
| R8, R11, R14 | OPEN |
| R9 | 20KΩ |
| R10 | 33Ω 5% |
| R12,13 | 0.33Ω 1W |
| R15,16 | 7.0KΩ 1% |
| R17 | 9.53KΩ 1% |
| R18 | SHORT |
| R19 | SHORT |
| C1 | 1μF, 400V |
| C2 | 22μF, 25V |
| C3 | 100nF |
| C4, C5 | 10nF |
| C6 | 680nF |
| C7 | 220nF |
| C8 | 100μF, 450V |
| C9 | OPEN |
| D1 | 1N4148 |
| D2 (DO-201AD) | STTH3L06 |
| D3 | ZENER 18V |
| D4 | 1N5406 |
| D5 | 1N4148 |
| Q1 (TO220) | STP20NM50 |
| BRIDGE | STBR606 (ST) |
| FUSE | 4A/250V |
| NTC | 2.5 |

- Note: 1 HEATSINKER: Aavid thermalloy max clip S508
 2 T1: Boost Inductor spec: EB0057-C (COILCRAFT)

Figure 1. EVAL6562-50W: efficiency (right)

Figure 2. EVAL6562-250W: PF (left) vs. Vin



2 Revision history

Table 2. Revision history

| Date | Revision | Changes |
|-------------|----------|-------------|
| 13-Nov-2006 | 1 | First issue |

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