

# TESS T-6C007W 12W 1000lm A19 LED Lamp

System Plus Consulting



*How Taiwanese TESS is improving price-performance ratio of LED lamps ?  
Found solutions used for a low cost but efficient 70W lamp replacement*

TESS (Top Energy Saving System Corp.), a leading LED lamp supplier from Taiwan is promoting a range of low cost replacement lamps at aggressive prices.

In a standard A19 shape, the LED based TESS Lamp integrates 18 warm white LEDs assembled on an IMS substrates. The driver electronic board is assembled in the base of the lamp. The heat dissipation is performed by the body in aluminum.

The main cost drivers have been optimized in this lamp. The lamp is not dimmable to limit the electronic complexity. The thermal contacts are not optimum and the light diffusion is not uniform.

The LED lamp analyzed in this report has a luminous Flux of 1000 lm at 12W and a correlated color temperature (CCT) of 3000K, which make it suitable for decorative and ambient lighting.

**This reverse costing report provides a complete teardown of the LED with:**

- Detailed photos & Material analysis
- LED assembly description
- Detailed bill-of-material
- Assembly process flow
- Manufacturing cost & price estimation



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Please enter my order for the "TESS T-6C007W A19 Lamp LED" Reverse Costing Analysis:

Ref.: SP13121

Corporate license price: EUR 1,490\*

\*For price in dollars please use the day's exchange rate

\*All reports are delivered electronically in pdf format

\*For French customer, add 20 % for VAT

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### COSTING SERVICES

- ✓ **On demand Reverse Costing studies** are performed on ICs, ASICs, MEMS, Power Devices, ECUs, electronic boards and full electronic systems
- ✓ **The catalog of available reports** includes cost analyzes on MEMS, Electronic components and Electronic systems

All these studies are performed using in-house developed costing tools and their technological databases.

### COSTING TOOLS

#### « Purchaser » tools

- ✓ IC Price+ to estimate the cost of any integrated circuit
- ✓ Power Price+ to estimate the cost of any power component or module
- ✓ PCB Price+ for printed circuit boards
- ✓ SYS.Cost a costing tool for electronic boards and systems

#### Cost Simulation Tools, process flow based

- ✓ MEMS CoSim+
- ✓ IGBT CoSim+
- ✓ SiC CoSim+
- ✓ LED CoSim+
- ✓ TSV CoSim+ (thru silicon vias)
- ✓ PV CoSim+ (photovoltaic)

- ✓ Other costing models can be developed according to customer specification

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