



Shanghai Huanke Environmental
Certification Limited Company

Energy Management System CERTIFICATE

We hereby certify that

SAMSUNG HIGH-TECH ELECTRO-MECHANICS (TIANJIN) CO., LTD.

(No. 1, Weisan Road, Micro-Electronics Industrial Park, Xiqing District, Tianjin 300385, P.R.China)

by reason of its Energy Management System

has been awarded this certificate for compliance with the standards

GB/T 23331-2012/ISO 50001:2011 Energy Management Systems-Requirements

**RB/T 101-2013 Energy Management Systems-Requirements for Certification
on Electronics and Information Enterprises**

The Energy Management System applies in the following area:

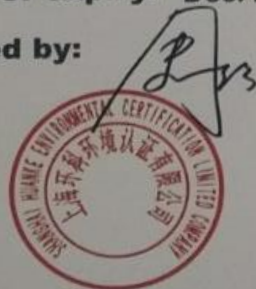
Energy purchase, transformation, transmission, distribution and usage management and energy saving technology application during manufacture, research and development, quality business of Image Sensor Modules(ISM), Oscillation Motors(MD) and Chip Resistors(TSVC)
(The energy performance and boundaries are detailed in the attached appendix bearing the same certificate number. The appendix forms an integral part of this certificate)

Certificate NO: 098 15 En1 013 R1 L

Date of issue: Dec. 26, 2015

Date of expiry: Dec. 25, 2018

Issued by:





Shanghai Huanke Environmental Certification Limited Company

Appendix to Energy Management System Certificate

Certificate No.: 098 15 En1 013 R1 L

Organization Name: SAMSUNG HIGH-TECH ELECTRO-MECHANICS (TIANJIN) CO., LTD.

Registered Address: No. 1, Weisan Road, Micro-Electronics Industrial Park, Xiqing District, Tianjin 300385, P.R.China

Production Address: No. 1, Weisan Road, Micro-Electronics Industrial Park, Xiqing District, Tianjin 300385, P.R.China

Scope of Certification: Energy purchase, transformation, transmission, distribution and usage management and energy saving technology application during manufacture, research and development, quality, business of Image Sensor Modules(ISM), Oscillation Motors(MD) and Chip Resistors(TSVC)

Certificate Criteria:

GB/T 23331-2012 idt ISO50001:2011 Energy Management System-Requirements

RB/T 101-2013 Energy Management Systems-Requirements for Certification on Electronics and Information Enterprises

Expiry Date of This Appendix: Dec. 25, 2016

Energy Performance and EnMS Boundaries:

Audit Type and Date	Energy Consumption	Energy Management System Boundaries
Recertification Audit Dec.8-9.2015	2014.11~2015.10: Energy consumption: 13652.0 tce Output value unit energy consumption: 0.018 tce/10 ⁴ RMB ISM production unit energy consumption: 1.005 tce/10 ⁴ pc TSVC production unit energy consumption: 4.9 tce/10 ⁴ pc	ISM production: 9322*10 ⁴ pc TSVC production: 667.9*10 ⁴ pc Industrial output value: 738117*10 ⁴ yuan Boundaries: 1# Building(ISM), 2# Building(TSVC), 3# Building(cafeteria), 4# Building(energy facility) and wastewater treatment plant, welfare building, etc.

