



1630 McCarthy Boulevard
Milpitas, CA 95035-7417



RoHS DIRECTIVE 2011/65/EU MATERIAL DECLARATION CERTIFICATE

Linear Technology Corporation certifies the deliverable products, when ordered as lead-free meet the RoHS DIRECTIVE 2011/65/EU.

- **Restriction of the use of certain hazardous substances in electrical and electronic equipment (Recast) does not pertain to Linear Technology Corporation.**
- **Linear Technology Corporation also complies with:** People's Republic of China RoHS Directive EIS SJ/T11364-2006

RoHS Definitions:

- Concentration limit of 0.1% by mass (1000 PPM) in homogeneous material for Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr), Polybrominated Biphenyl (PBB), Polybrominated Diphenyl Ether (PBDE), Decabromodiphenyl Ether (Deca-BDE), Toluene, Trichlorobenzene, and Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutylphthalate (DBP)
- Concentration limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium (Cd)
- Concentration limit of 0.005% by mass (50 PPM) for Perfluorooctane Sulfonates (PFOS)

RoHS Exemption:

- Products in the TO-220, DDPACK, SOT223 and TO247 packages are currently assembled with a Soft Solder Die Attach material containing Lead (Pb). **Article 4, Annex 7a** (>85% Lead, Pb, in high melting point solders) exempts this material at this time. The Chinese RoHS EFUP Logo 2 applies when these packages are shipped to the People's Republic of China.
- The micro modules products contain lead in the glass frit. **Article 4, Annex 7(c)-1**, (electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound. The Chinese RoHS EFUP Logo 2 applies when these packages are shipped to the People's Republic of China.

Substances of Concern:

- Antimony Trioxide, Sb_2O_3 (CAS# 1309-64-4) and Bromine, Br (CAS# 10097-32-2) are used as a flame retardant in mold compound in several products. Linear Technology Corporation is evaluating and qualifying new mold compounds that contain no Sb_2O_3 , or Br. Once qualified these products will be considered Halogen-Free.
- Polyvinyl Chloride (PVC) – in shipping tubes, CAS #9002-86-2. The tubes are reused 2 times then recycled.
- Linear Technology Corporation products do not contain or have termination finishes of Pure Lead or Pure Zinc.

Linear Technology Corporation's Device Material Declaration concentrations are estimated and are derived from engineering calculations.

Linear Technology Corporation has a lifetime warranty on all our products, with Linear Technology Corporation standard liability limited to the replacement of confirmed defective products. Linear Technology Corporation's ongoing Environmental Program will help ensure we are in compliance with our customer's environmental needs.

Paul Chantalat
Vice President, Quality and Reliability

LINEAR TECHNOLOGY CORPORATION ACCEPTS NO DUTY TO NOTIFY USERS OF THIS DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION.

LTC Revision 7 February 3, 2012

CONTACT INFORMATION:

Name: Bobbi Bennett Title: QA Specification Review Manager and Product Environmental Specialist Email: bbennett@linear.com