To whom it may concern
July 2019

RoHS

RoHS – Restriction of the use of certain hazardous substances in electrical and electronic equipment.

The RoHS Directive aims to reduce the risks to human health and the environment by replacing and restricting hazardous chemical substances in electric and electronic equipment. The Directive also aims to improve the prospects of cost-effective and sustainable recycling of material waste from electronic and electronic equipment.


We hereby confirm that all RoHS labelled Printed Circuit Boards (PCBs) supplied by NCAB Group complies with the latest RoHS directive.

The RoHS directive restricts the maximum concentration values tolerated by weight in homogeneous materials to:

- Lead (0.1%)
- Mercury (0.1%)
- Cadmium (0.01%)
- Hexavalent chromium (0.1%)
- Polybrominated diphenyls (PBB) (0.1%)
- Polybrominated diphenyl ethers (PBDE) (0.1%)
- Bis(2-ethylhexyl) phthalate (DEHP) (0.1%)
- Butyl benzyl phthalate (BBP) (0.1%)
- Dibutyl phthalate (DBP) (0.1%)
- Diisobutyl phthalate (DIBP) (0.1%)

PBB and PBDE are brominated flame retardants. These are not used in PCBs. The brominated flame retardant used in PCBs is TBBP-A (Tetrabromobisphenol-A). This is not restricted by RoHS.

TBBP-A is a reactive flame retardant (in FR4) which means in practical that the risk for leakage to the environment is very low.

Bromma, July 2019

Hans Ståhl, CEO, NCAB Group