



State of the Art, Inc.

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Restriction on Hazardous Substances (RoHS) MIL-PRF-914 Product Compliance

The European Union's RoHS legislation¹ prohibits the sale of products that contain lead², mercury, cadmium, chromium(VI), polybrominated biphenyls, and polybrominated diphenylethers, unless an end use exemption is granted.

State of the Art, Inc. (SOTA) MIL-PRF-914 surface mount resistor networks contain lead, and therefore are not RoHS compliant.

- ❑ The termination material is solderable and is not RoHS compliant. These resistor networks are required to have > 3% lead in the solder alloy per the specification (paragraph 3.5.6). The specification also prohibits the use of 100% tin as an undercoat (paragraph 6.4.2). SOTA uses Sn60 (40%Pb) on these resistor networks.

Future Termination Finishes:

MIL-PRF-914 is controlled by the Defense Supply Center Columbus (DSCC). To our knowledge there has been no activity to add a lead free solderable termination material to this specification. The target applications for this specification should be able to receive an end use exemption for the RoHS requirements. SOTA is not allowed to provide lead free or pure tin terminations by the specification. Any new termination finish approved for the specification will be assigned a new termination material code.

¹ Directive 2002/95/EC of the European Parliament and the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

² Lead in the glass of electronic components is exempted from the requirements of Article 4(1) by application 5 in the annex to RoHS. SOTA thick film resistors have lead in the glass overcoat.