



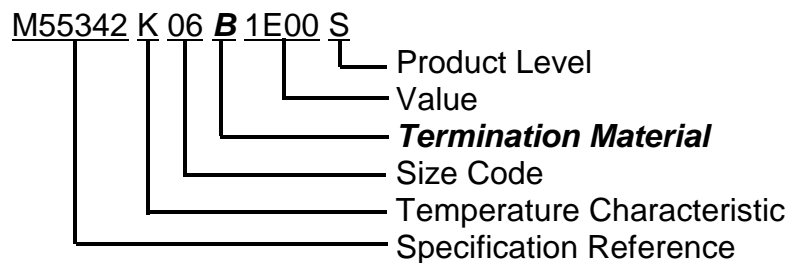
State of the Art, Inc.

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Restriction on Hazardous Substances (RoHS) MIL-PRF-55342 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-55342 resistors may contain lead or cadmium, and therefore not be RoHS compliant. Compliance is determined by the termination code identified in the table below.



- Termination Material **B** is solderable and is not RoHS compliant. These resistors are required to have > 3% lead in the solder alloy per the specification (paragraph 3.5.3). The specification also prohibits the use of 100% tin as an undercoat (paragraph 6.4.5). SOTA uses Sn60 (40%Pb) on these resistors.
- Termination Material **W** is wire bondable and is RoHS compliant.
- Termination Material **U** is epoxy bondable and is not RoHS compliant. The conductor material contains cadmium.
- Termination Materials **C** and **G** are epoxy bondable and are RoHS compliant.

Future Termination Finishes:

MIL-PRF-55342 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.