

ENGINEERING PRACTICE STUDY

TITLE: Creation of new standardization documents under FSC 5955

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STUDY PROJECT 5955-2021-001

FINAL REPORT

Study Conducted by DLA Land and Maritime

Prepared by:

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OBJECTIVE: The purpose of this Engineering Practice (EP) study is to obtain input from the military services, crystal oscillator manufacturers, and user community concerning Surface Acoustic Wave (SAW) type oscillator usage that are not covered by current slash sheets of MIL-PRF-55310.

BACKGROUND: DLA Land and Maritime Document Standardization Division (VA), Electronic Components Branch (VAT) is working to develop new standardization documents for Surface Acoustic Wave (SAW) Oscillator under FSC 5955. Currently DLA does not offer any SAW type of Oscillator.

RESPONSE REQUESTED:

DLA-VAT requested to submit comments on the following:

1. Do you have any interest in standardizing SAW Oscillator or Voltage Controlled Oscillator?
2. Will this standardization action fall under a new slash sheet of the Performance Specification MIL-PRF-55310 (Crystal Controlled Oscillator), DLA Land and Maritime drawing, or Commercial Item Description?
3. Will you provide DLA with the technical information or datasheet needed to support this standardization action?

RESULTS:

DLA-VAT received several comments from suppliers of MIL-PRF-55310 stating that they have an interest in standardizing SAW Oscillators (Oven Controlled SAW and Voltage Controlled SAW). It should fall under a new slash sheet of the Performance Specification MIL-PRF-55310. They will support DLA with the technical information or datasheet needed to support this standardization action.

DLA-VAT received comments from users' communities of MIL-PRF-55310 stating that if this effort is to move forward, DLA should review two canceled Specifications MIL-S-49433; which addressed Surface Acoustic Wave (SAW) Devices and MIL-O-85171; which addressed Voltage Controlled Oscillators. In addition, there is an inactive document which addresses Voltage Controlled Oscillators MIL-O-85432. Information from those specifications may prove useful in developing the required standardization documents in this area.

CONCLUSIONS: As a result, from this EP study DLA will prepare two different performance slash sheets to cover Voltage Controlled and Oven Controlled SAW Oscillators. DLA will also review the specifications MIL-S-49433, MIL-O-85171, and MIL-O-85432 to obtain information while developing these documents.