

ENGINEERING PRACTICE (EP) STUDY

TITLE: MIL-DTL-3933 and associated slash sheets.

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FINAL REPORT

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**I. OBJECTIVE:** This engineering practice study was conducted to determine if the qualified suppliers of MIL-DTL-3933 have any interest in the future to qualify for PINs (Part Identification Number) with 20dB attenuation or above that are currently covered by DLA drawings and to obtain inputs/comments regarding the current revision K of MIL-DTL-3933.

**II. BACKGROUND:** When revision K was dated on April 12, 2011 one qualified supplier of MIL-DTL-3933 decided to leave the qualification program. As a result some of slash sheets/PINs of MIL-DTL-3933 were left without a QPL source causing a zero source issue. As a solution, DLA converted those zero source PINs to DLA drawings for mitigating backorders. In order to find out if the suppliers have any interest to qualify for those PINs that are covered by DLA drawings; they were asked to comment on the following:

1. *Do you have any attenuator for PINs higher than 20dB attenuation value?*
2. *Do you have any plan to qualify attenuator slash sheet for PINs higher than 20dB attenuation value?*
3. *Do you sell any Military grade attenuator to the OEM that meet MIL-DTL-3933 requirements but not qualify yet in slash sheet under MIL-DTL-3933?*
4. *Do you have any objection or comments if DLA propose to remove/inactivate the following PINs from the slash sheets listed below, since they are currently being replaced by DLA Land and Maritime drawing?*

<i>MIL-DTL-3933 PINs</i>	<i>Current replacement to DLA Land and Maritime drawings</i>
<i>M3933/14-13N</i>	<i>13014-13N</i>
<i>M3933/14-13S</i>	<i>13014-13S</i>
<i>M3933/14-14N</i>	<i>13014-14N</i>
<i>M3933/14-14S</i>	<i>13014-14S</i>
<i>M3933/18-05N</i>	<i>13015-05</i>
<i>M3933/25-22N</i>	<i>13016-22N</i>
<i>M3933/25-22S</i>	<i>13016-22S</i>
<i>M3933/25-24N</i>	<i>13016-24N</i>
<i>M3933/25-24S</i>	<i>13016-24S</i>
<i>M3933/25-26N</i>	<i>13016-26N</i>
<i>M3933/25-26S</i>	<i>13016-26S</i>
<i>M3933/25-89N</i>	<i>13016-89N</i>
<i>M3933/25-89S</i>	<i>13016-89S</i>
<i>M3933/25-90N</i>	<i>13016-90N</i>
<i>M3933/25-90S</i>	<i>13016-90S</i>

*Please provide your comments or concerns on above questionnaire and will be appreciated.*

MIL-DTL-3933K Basic Specification Questionnaire:

1. Do you have any objection if DLA proposes the following changes to the Periodic inspection section to the slash sheet?
  - a. If DLA offers/proposes grouping by “connector type” for periodic Group C inspection (see Table VI) requirements.
  - b. To extent periodic inspection from --- years to four years.

<b>Table VI Periodic Group C extension <sup>1/</sup> slash sheet attenuator style and grouping by connector type</b>	<b>Extension of Group C for periodic inspection</b>
/18 ( SERIES N) Class III	/18 ( Class III)
/17 (TNC) Class IV or /19 (BNC) Class III	/17 ( Class IV) and /19 ( Class III)
/23 (TO-5 CONFIGURATION) Class IV	/23 ( Class IV)
/25 (SMA) or /16 Class IV	/25, /24, /16, and /14 ( class IV)
/29 (SURFACE MOUNT) Class IV	/29 ( Class IV)
/32 (SMK)	/30, /31 and /32

<sup>1/</sup> If the manufacturer can demonstrate that slash sheet have been performed for two consecutive periods with zero failures, the frequency of this test, with the approval of the qualifying activity, can performed every 48 months. If the design, material, construction or processing change, or if there are any quality problem or failures, the qualifying activity may require resumption of the original test frequency.

2. Please provide any other comments or concerns on MIL-DTL-3933 that you would like to address in the future revision?

**III. RESULTS:** The input received from the suppliers of MIL-DTL-3933 revealed that they did not have any interest to qualify for PINs higher than 20dB or above that are currently replaced with DLA drawings. However the suppliers have plans to qualify for PINs higher than 20dB in the future on different slash sheets of MIL-DTL-3933. The feedback received from the suppliers was positive to extend periodic inspection to four years and allow grouping by connector type.

Inputs received from suppliers on the current revision K are to address the PDA requirement for screened devices and to clarify the rejected items (rework) paragraph 4.6.1.7 of MIL-DTL-3933.

**IV. CONCLUSIONS:** The suppliers did not have any interest to qualify for any of the PINs that are currently covered by the DLA drawings.

**V. RECOMMENDATIONS:** As a result DLA will revise MIL-DTL-3933/14, /18 and /25 to cancel the PINs that are currently covered by DLA drawings 13014, 13015 and 13016 respectively. MIL-DTL-3933 will be revised in the future to extend periodic inspection to four years with addition of the new table to allow grouping by connector type and to address the other concerns received from the suppliers.