DOCUMENT CHANGE REQUEST

DCR number 1432	Changes required for: General	Originator: Steve Thacker
Date: 2023/11/30	Date sent: 2021/06/11	Organisation: ESCC Executive Secretariat
Status: IMPLEMENTED		

Title:	RF Coaxial Connectors Type SMA 50 Ohms (Male Contact)		
Number:	3402/001	Issue:	3

Other documents affected:

Page:

All

Paragraph:

All

Original wording:

Total reformat/re-write of ESCC Detail Specification 3402/001 issue 3 as part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format as well as reflecting changes in the recently converted ESCC Generic Specification No. 3402 issue 5.

The layout, format and general content of 3402/001 Draft 4 is based on other converted ESCC Detail Specifications (see attached for proposed 3402/001 Draft 4).

The technical content of ESCC 3402/001 Draft 4 remains closely based on the original ESCC 3402/001 issue 3 except as detailed herein.

Proposed wording:

Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3402/xxx, for RF connectors under Generic Specification No. 3402) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3402/001 Draft 4.

Note: known support for active procurement against this specification includes the following Manufacturers:
• C&K (on ESCCQPL)
• Rosenberger (on ESCCQPL)

Summary of changes to the current format, layout and content is as follows:

General
Rewording and restructure of various sections and paragraphs of the specification, plus other editorial changes based on the layout and editorial content of other Detail Specifications already converted to ESCC format.

In addition, editorial and technical amendments resulting from the changes made to the test requirements of the Generic Specification No. 3402.

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Specific amendments include:
• Table 1(a): unused Variants 11, 19, 31 are removed from the table (= redundant information).

• Figures 2(a) and 3: are replaced by direct references within MIL-STD-348.

• Para 4.2.2: Deviation is deleted (effectively replaced by notes to Paras 2.4 & 3)

• Para 4.3.4: deleted (as the requirements have been deleted in the Generic spec).

• Para. 4.3.7: Magnetism requirements are now only for information purposes (as the requirements have been deleted in the Generic spec).

• Para. 4.4: Materials and finishes for washers, EMI and Compression gaskets are added.

• Para 4.5: ESCC component number is amended (due to SCC level B/C being deleted)

• Table 2, Voltage Proof Leakage Current: test point details are added.

• Table 6 only includes specified electrical measurement requirements as required for the various Chart F4 Qual level tests (tests without electrical measurements are deleted) (editorial change).

• Figure 2(b):
All variants:
"RF leakage" and "Corona level" are now only for information purposes (as the requirements have been deleted in the Generic spec).
"Maxi leakage (panel sealed connectors)" is deleted (= redundant information).
"Soldering Proof" is deleted (as the test has been deleted in the Generic spec).

Variant 04: Solderability changed to 'Applicable'.

Variant 36: Seal is changed to be 10(-8) i.e. "seal only" is deleted (as this is a fully hermetic variant)

Justification:

Part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format. Amendments are made to the format and presentation to be consistent with the various other ESCC Detail Specifications, already converted to ESCC format, as well as ESCC Generic Specification No. 3402 issue 5.

See also change details for justification for specific items above.

Attachments:
escc3402001iss_draft_4a_in_review.docx
Modifications:
N/A
Approval signature:

Date signed:
2023-11-30