



DOCUMENT CHANGE REQUEST

DCR number 1439 Changes required for: General

Date: 2023/11/30

Date sent: 2021/07/15

Originator: Steve Jeffery

Organisation: ESCC Executive

Status: IMPLEMENTED

Title: RF Coaxial Connectors, Type SMP, 50Ohm (adaptors and connecting pieces)

Number: 3402/026

Issue:

1

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3402/026 Issue 1 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 3402/026 Draft 2A is based on other converted ESCC Detail Specifications (see attached for proposed 3402/026 Draft 2A).

The technical content of ESCC 3402/026 Draft 2A remains closely based on the original ESCC 3402/026 Issue 1 except as detailed herein.

Paragraph:

All.

Original wording:

As per ESCC 3402/026 Issue 1.

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 3402/026 Draft 2A.

Note: known support for active procurement against this specification includes the following Manufacturers:

- Rosenberger (ESCCQPL listed)

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:

- Type Variants Table: Table is simplified, with all specific component details/characteristics moved to Para. 2.4 Room Temperature Electrical Measurements & Para. 3 Component Type Variants - Detail Requirements. Text added to clarify that, for Contact Engagement and Separation Forces, the Oversize Pin and the Maximum Diameter Test Pin are the same.
- Figures 2(a): replaced by direct reference within MIL-STD-348.
- Para. 4.2.1: only the deviation against Contact Engag. and Separ. Forces applies (deviation is now against Production Control; changes in respect of the content of the recently-converted Generic spec).
- Paras. 4.2.2, 4.2.4 & 4.2.5: are updated (Coupling Proof Torque is not applicable being the only required deviation due to the content of the converted Generic).
- Para. 4.3.4: deleted (as the requirements have been deleted in the Generic spec).
- Para. 4.3.7: deleted (as the requirements have been deleted in the Generic spec).
- Para. 4.4.1: Variant 13s material amended to passivated amagnetic stainless steel.
- Paras. 4.5.1, 4.5.2: ESCC component number is amended: ESCC qualified components symbol is added; Testing level is deleted (due to SCC level B/C being deleted).
- Table 2: The applicability of room temp electrical measurements is added for clarification.
- Table 2: Specific test limits are added (was a Note referring back to Table 1(a))
- 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).
- Table 6: Contact Resistance test conditions are added.
- Figure 2(b):
All variants (note - information was included in Table 1(a) Component Type Variants and Range of Components):
RF leakage is deleted (as the requirements have been deleted in the Generic spec).
Hermeticity max is deleted (redundant information).

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.



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See also change details for justification for specific items above.

Attachments:

esc3402026_iss_2_draft_a_for_review.docx

Modifications:

Para. 4.3.5: the gauge dimensions (in Table 1(a)) are replaced by the gauge requirements as defined in MIL-STD-348 (in new para 1.6.1).

Para. 4.3.6: number of mating/unmating cycles is amended.

Table 6: note on measurement details for VSWR is added.

Add Appendix for Rosenberger:

To permit Manufacturer to still mark the current testing level code as a Manufacturer Code.

Approval signature:

Date signed:

2023-11-30