	ES(<u>;C</u>	D	OCUMEN	IT CHANGE REQUEST
DCR number	886	Changes ree	quired for: Ge	eneral	Originator: Steve Thacker
Date: 2015/11	/13	Date sent: 2	2014/10/29		Organisation: ESCC Executive Secretariat
Status: IMPLE	EMENTED				
Title:	Generic Specifica	ation for Ferrite I	Microwave Cor	nponents Isolat	ors and Circulators
Number:	3202 Issue: 1				
Other documen	ts affected:				
Page:					
All					
Paragraph:					
specifications to the ESCC format. In addition the Spec is typed using alternate publishing software (was GlobalView; is now WORD2010) For Details see attached: - ESCC 3202 draft 2F that implements all the proposed changes - Hand mark-up of 3202 issue 1 indicating the main proposed changes per this DCR Original wording:					
See 3202 issue	e 1 plus attached H	and mark-up of	3202 issue 1 i	ndicating the m	ain proposed changes per this DCR
Proposed word	ing:				
The Generic Specification is proposed to be extensively amended to incorporate various policy, technical, and editorial amendments & corrections in order implement changes specified and agreed by ESA and the CTB Working Group on RF Passive Components, as well as to bring it in line with other ESCC Generic Specifications that have already been converted to the new ESCC format (e.g. ESCC 3403, 5000, 9000).					
The layout, format and general structure, and editorial content of ESCC 3202 draft 2 are based closely on other ESCC Generic Specifications that have already been converted to ESCC format (e.g. ESCC 3403 since issue 3 per DCRs 50, 138, 150, 539 (all approved)).					
The proposed technical content of ESCC 3202 draft 2 is based on the current content of ESCC 3202 issue 1 plus additional technical changes specified and agreed by ESA and the CTB Working Group on RF Passive Components.					
This DCR summarises all the amendments to ESCC 3202 issue 1 related to the conversion to ESCC format, plus details the additional editorial & technical changes specific to ESCC 3202 issue 1.					
For full details of the proposed contents of ESCC 3202 issue 2, see the attached draft Generic specification ESCC 3202 draft 2. For an indication of the technical changes proposed by this DCR, see the attached hand mark-up of ESCC3202 issue 1.					



	SC	C	DOCUMENT	CHANGE REQUEST		
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11) Para 4.4, Marking	requirements	are amended to simply	refer to ESCC 21700.			
12) Para 4.5, Material	outgassing re	ference document is cor	rected to be ESCC 22	600.		
13) Para 5 plus the fir Control/Special In-Pro	st few tests of ocess Controls	Chart II are replaced by	Para 5 & Chart F2 in I	ESCC 3202 draft 2: Production		
14) The General Flow	/ Chart I is repl	laced by Chart F1; It clar	ifies the flow of compo	onents for Procurement.		
15) The majority of te	sts in Chart II a	are replaced by Chart F3	in ESCC 3202 draft 2	: "Screening Tests".		
16) Para 8.4, Failed components during qualification or MoQ testing are to be held until final disposition has been agreed and certified by the ESCC Executive (was 24 months).						
17) Para 9.15 & Char	17) Para 9.15 & Chart II, Dimension Check is performed on 3 samples instead of 5.					
18) Para 10.1.2, the minimum required delivered documentation to the customer for procurement is a Certificate of Conformity & a Cover sheet.						
B) Details of Other Ec	litorial and/or T	Fechnical Changes (spec	cific to ESCC3202):			
19) Para 2.1 & 2.2	(- 1) - (
- Reference documents that are not actually referenced in 3202 are removed, i.e. ESCC3402, ESCC3402/xxx, PSS-01-201, PSS-01-301, PSS-01-708, IEC No. 68, IEC No.410, MIL-STD-105, IEC No.512.						
- Additional ESCC references are added as necessary, i.e. ESCC20900, 22600, 23100, 25400, ESCC XXXXX (new draft No. 162)						
- Obsolete and superseded IEC, PSS & MIL references are corrected.						
20) Para 3, various definitions are added that specify various categories of component (e.g. high & low power; components with coaxial connectors, components with resistive load elements, etc.)						
21) Para 5.2.4 Plating Thickness						
This test is made applicable only if specified in the Detail specification. If the test is applicable, the Detail spec will detail the test requirements including sampling.						
22) Para 5.2.5 & 5.2.9 Brazed Joints & Internal Solder Joints These requirements are deleted from the specification (as there is no available ESCC standard for the inspection nor a clear test requirement specified. These are considered to be in-process inspections, controlled by the Manufacturer and not required to be specified in the procurement spec).						
23) Para 5.2.6 Resist	ve Loads					



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 Thermal Shock (in Endurance subgroup). Robustness of Terminations is renamed Terminal Strength Operating Life is replaced by Power Thermal Vacuum Note 2 allowing electrical rejects to be used for some testing is deleted. The sample sizes of the various subgroups used for qualification is reduced (it more closely matches the previous LAT sample sizes in Chart V). 						
29) Para 9.2 Final Asse	embly is delet	ed (as this is not a test).				
 30) Para 9.4, Rapid Change of Temperature is replaced by the equivalent MIL Thermal Shock test method (rather than IEC). During Screening Tests, Thermal Shock shall be performed at the storage temperature extremes (rather than at operating temperature extremes). For qualification level testing, the number of cycles is amended to be 100 & 200 for the 2 separate tests in Chart F4 (was 10) Post Thermal Shock Room Temperature Electrical Measurements are included for the test performed during Screening Tests in Chart F3. 31) Para 9.5 Vibration The Sine Vibration test is replaced by a Random Vibration test (per the equivalent MIL test method rather than IEC). The test conditions applied i.e. level, duration etc., are significantly amended; see Para 8 10 in the attached 3202 Draft 2 for 						
details. Post Vibration Room Temperature Electrical Measurements are included for the test performed during Screening Tests in Chart F3.						
32) Para 9.7.1.1, Reference to the limit of mating/unmating cycles per PSS-01-301 is deleted.						
33) Para 9.7.1.4. Return loss is renamed as VSWR						
34) Figures I to V are deleted						
35) Para 9.8 Coupling Proof Torque, The test requirements of ESCC3402 are incorporated directly into this specification.						
36) Para 9.9 Mating and Unmating Forces, The test requirements of ESCC3402 are incorporated directly into this specification.						
37) Para 9.12 & Fig VII	, Multipaction	test requirements are a	mended to reflect the	test specified in ECSS-E-20-01.		
38) Para 9.16.1 Shock, shock pulse is changed to be 1500g; 0.3ms (instead of 50g; 11ms)(per the equivalent MIL test method rather than IEC).						
39) Para 9.20 Enduran number of cycles speci	ce, The test r fied at 500 (p	equirements of ESCC34 reviously was unspecifie	02 are incorporated died).	irectly into this specification with a default		



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40) Para 9.21, Solderability, IEC test method is replaced by the equivalent MIL test method.

41) Para 9.22, Robustness of Terminations, IEC test method is replaced by the equivalent Terminal Strength MIL test method.

42) Para 9.23 Damp Heat (Steady State), is deleted.

43) Para 10.5 Special In-Process Controls Data The requirement to provide test data for Outgassing, Stress Corrosion & Braze Microsectioning is deleted.

44) Para 10.6.1 FPT (Chart II) Test Result Summary The list of data items is amended to reflect the amended Chart F3 in ESCC3202 draft 2.

45) Para 12, requirements are amended to simply refer to ESCC 20600 (notes on special packaging, storage & transportation are deleted; considered covered by the PID and/or PO)

45) Annex I is deleted.

Justification:

All changes have been defined and included to serve the purposes of technical improvement, clarification, accuracy, completeness, simplification, harmonisation and consistency. The aim is to simplify and improve the content and interpretation of the specification and its requirements whilst maintaining an efficient and acceptable technical baseline.

All technical changes have been defined and/or agreed by ESA and the CTB Working Group on RF Passive Components.

ESCC 3202 draft 2 is written to closely follow the layout, format and content of other already converted ESCC Generic Specifications. The justifications for the related policy and editorial changes implemented into ESCC3202, which have already been agreed and applied to other ESCC Generic Specifications, also apply to this DCR.

In addition: replacement of obsolete publishing software.

Attachments:

3202_draft_2f_for_review_2014_10_22.docx, dcr_attachment_3202_iss_1_markup.pdf, 3202_draft_issue_2_(final_revision_for_publishing).docx, dcr_attachment_3202_draft_2f.pdf,

Modifications:

The following amendments apply to the original contents of this DCR886:

Note: These modifications reflect the contents of the final draft revision ESCC 3202 Draft 2G as accepted by the PSWG during PSWG MoM #70.

• The original DCR attachment shall be replaced by ESCC 3202 draft 2G that implements all the accepted changes.

Original DCR Item 19) Para 2.1, 8.19: ESCC No. xxxxx is finalised as ESCC 24500.

Approval signature:

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Date signed:

2015-11-13