



## DOCUMENT CHANGE REQUEST

DCR number 310

Changes required for: N/A

Originator: Schumacher

Date: 2006/12/19

Date sent: 2006/12/19

Organisation: DLR

Status: IMPLEMENTED

Title: Attenuator, RF Coaxial, Type SMA, DC-22GHz

Number: 3403/005

Issue: 2

Other documents affected:

Page:

Para. 1.6 physical dimensions, page 8

Paragraph:

Para. 1.6 physical dimensions, page 8

Original wording:

Proposed wording:

add note to Para. 1.6:

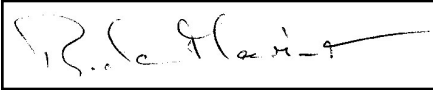
Note: the two flats on the body shall be used to held the body with a wrench or adequate tool in position, while turning the nut.

Proposal: add a new Para. 1.8. Handling Instructions (see attachment)

Justification:

The attenuators are sensitive to stress caused by turning of the body while mounting. Depending on the stress level the internal solder joint will break, resulting in abnormal characteristics or VSWR. As by design two flats are shown in the drawing of the connector, a hint should be given to use these flats to apply a tool holding the body in position. Only the nut is allowed to be turned.

Radiall has provided instructions, and it seems that these instructions should become known to all users (not only to those who experienced problems).

Attachments:
Assembly_procedure_for_an_attenuator.pdf, null
Modifications:
Accordingly the DCR should be amended to read as follows:  Para 1.5 Maximum Ratings Add the following text to Note 3: "During engagement of the component with its mating counterparts the body of the component shall be restrained by means of the body flats whilst torque is applied to the coupling nuts (see Para 1.6)"  Para 1.6 Physical Dimensions Add a "Notes" column to the table with new Note 1 against Dimension 'D' as follows:  "The body flats shall be used to restrain the body during engagement whilst torque is applied to the coupling nuts"  -----  Justification: As Max ratings already includes the Coupling Nut Torque rating (information to be applied by users during application) this is considered to be the best location in the spec for the new engagement note. The above proposed alternate wording is considered clear & sufficient. There is no need to add a new para 1.8 nor to add a new figure as per the original DCR.
Approval signature:

Date signed:
2006-12-19

### Assembly procedure for an attenuator

For assembly of the attenuator, the body of the attenuator must be maintain during the screwing operation, only the nut must be turned

