



DOCUMENT CHANGE REQUEST

DCR number	1225	Changes required for:	General	Originator:	Laetitia Casazza
Date:	2019/11/07	Date sent:	2019/01/18	Organisation:	Vishay France
Status:	IMPLEMENTED				

Title: Resistors fixed film chips, based on type P HR

Number:	4001/023	Issue:	11
---------	----------	--------	----

Other documents affected:

Page:

14

Paragraph:

2.7 INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS

Original wording:

Part Intermediate/Final Measurement

Proposed wording:

Adding the following intermediate / Final Measurement:
Intermediate/Final Measurement (4000H):
 Variants 01 to 08, 13 and 14 +/- (0.3 + 0.05x100/Rn)
 Variants 09 to 12, 15 to 20 +/- (0.5 + 0.05x100/Rn)

Intermediate/Final Measurement (6000H) OPTIONNAL:
 Variants 01 to 08, 13 and 14 +/- (0.45 + 0.05x100/Rn)
 Varaints 09 to 12, 15 to 20 +/- (0.75 + 0.05x100/Rn)

Justification:

We do a systematic measurement at 4000H for failure rates, in the same way we wish to have the possibility of making a measure to 6000H.
The latter would remain optional

Attachments:

N/A

Modifications:

Modifications

The following DCR modifications were agreed with Vishay. The original DCR changes are replaced by the following for clarification & correction purposes.

a) The following changes to Operating Life shall only impact failure rate Variants 09 to 12 and 15 to 20, type PFRR (i.e. original DCR changes for Variants 01 to 08 and 13, 14 are removed)

b) For Para.2.7, Operating Life test, 2 new intermediate measurements at 4000h and 6000h are added (after the 2000h test) plus clarification is made to the final 8000h measurements, as follows:

.....

Intermediate Measurements (4000 hours) (Notes 2, 3)

Change in Resistance RA/RA

Variants 09 to 12, 15 to 20:

Limits: $\pm (0.5 + 0.05 \times 100/R_n) \%$

.....

Intermediate Measurements (6000 hours) (Notes 2, 3)

Change in Resistance RA/RA

Variants 09 to 12, 15 to 20:

Limits: $\pm (0.75 + 0.05 \times 100/R_n) \%$

.....

Final Measurements (8000 hours) (Note 2)

Change in Resistance RA/RA

Variants 09 to 12, 15 to 20:

Limits: $\pm (1 + 0.05 \times 100/R_n) \%$

.....

c) Add new Note 3 to the table in Para 2.7:

3. These measurements are optional at the Manufacturer's discretion.

Approval signature:

A handwritten signature in black ink, appearing to read "Austrian Power".

Date signed:

2019-11-07