

DESCRIPTION

PRODUCT COVERED:

USL, CNL - Listed Open Type Programmable Controller, fieldbus repeater, Cat No. OZD 485 G12, **may be followed by - 1300, may be followed by PRO.**

GENERAL:

These devices are for use in industrial automation applications. These devices are fiberoptic fieldbus repeater for industrial bus systems. They communicate via interfaces through wire or fiber optics, to be supplied by a Class 2 source only.

ELECTRICAL RATINGS:

Main Supply Voltage:	18..32 Vdc, Class 2
Input Current:	0.19 A
	0.18 A for models with suffix PRO
Max. surrounding air temperature:	60°C
	70°C for modules with suffix PRO

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE):

CNL - Indicates investigation to Canadian National Standard(s)
C22.2 No. 14-M95.

USL - Indicates investigation to United States Standard UL 508,
(Industrial Control Equipment).

Note: CNL = Canadian National Standards - Listed.

USL = United States Standards - Listed.

CONSTRUCTION DETAILS:

General - The details of construction are covered in the following photographs and accompanying descriptive pages and illustrations.

Corrosion Protection - All parts of corrosion resistant materials are painted or plated as corrosion protection.

Class 2 circuit - The investigation has been conducted under consideration of the Class 2 requirements. This allows for the investigation of spacings and components on the secondary to be waived.

Installation Instructions - Shall be provided and include a wiring diagram. It must include a statement "Only for connection with a Class 2 power supply" or equivalent.

Warning Markings - See Section General for details.

Markings - Listed company name or trademark, model number, electrical ratings, and wiring diagram is required. Terminal identifications are also on the device.

"For Use In Class 2 Circuits" or equivalent statement. This may be provided in the installation instructions separately instead of marked on the device.

The following markings are also provided on the device or as part of the installation instructions:

"Use 60/75 or 75°C copper(CU)wire only"

For modules with suffix PRO:

"Use 90 or 90°C copper(CU)wire only"

NOMENCLATURE:

The significance of the alphanumeric marking system is explained as follows:

NOMENCLATURE BREAKDOWN:

OZD	485	G12	-1300	PRO
I	II	III	IV	V

I: basic fiber optical repeater designation

II: RS 485 port type

III: G - glass fiber
 1 - number of electrical ports
 2 - number of optical ports

IV: **-1300: wave length 1300 nm**
 blank: wave length 860 nm

V: **PRO Professional modul type**

MODEL OZD 485 G12(-1300) PRO

FIG. 4, 5, 6, 7, 8

General - These figures show the fieldbus repeater OZD 485 G12 PRO and OZD 485 G12-1300 PRO are for reference use only. Due to the use of Class 2 Source, no evaluation of components was considered necessary except of the following:

1. Terminal Block R/C - (XCFR2), 12 pole, manufactured by RIA CONNECT INC, cat. no. 31379112, rated 300V, 8 A, suitable for field wiring.
2. Terminal Block R/C - (XCFR2), 7 pole, manufactured by PHOENIX CONTACT GMBH & CO KG, MVSTBR 2.5/7-STF-5.

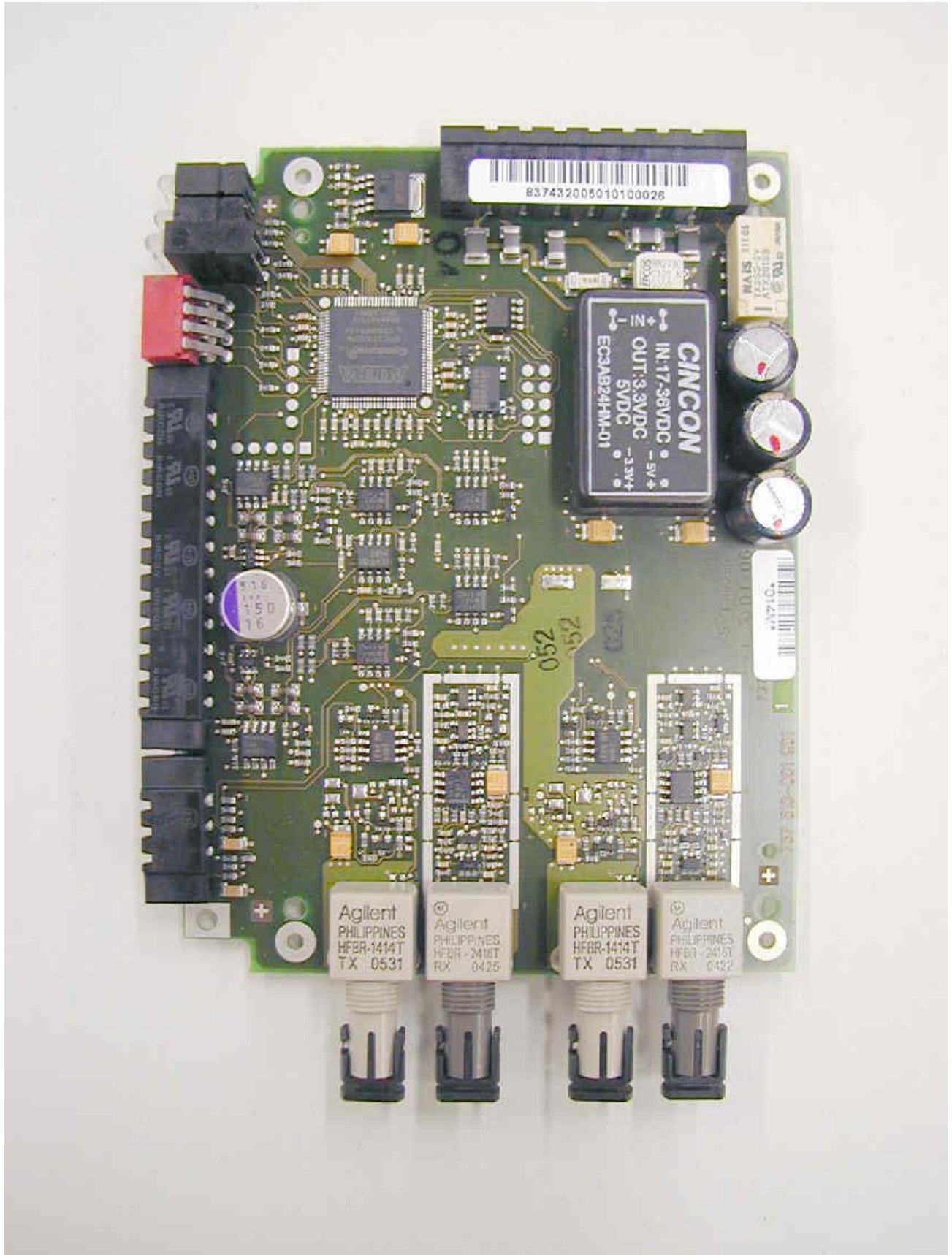
Alternate - same as above, except RIA CONNECT INC., Ria 218,
Cat. No.31218107.

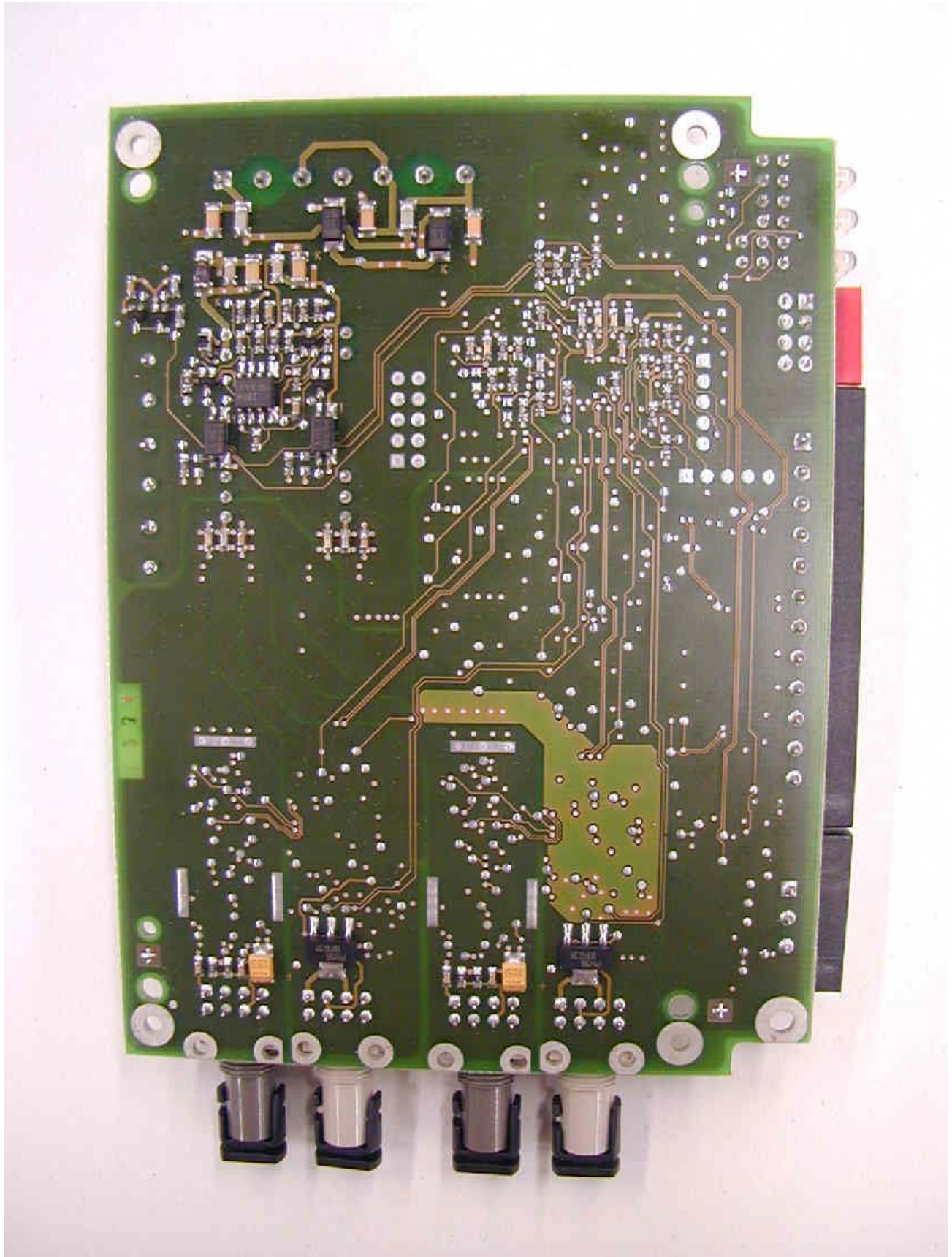
3. Terminal Block R/C - (XCFR2), 3 pole, manufactured by RIA CONNECT INC., Typ 379, cat. no. 31379103.

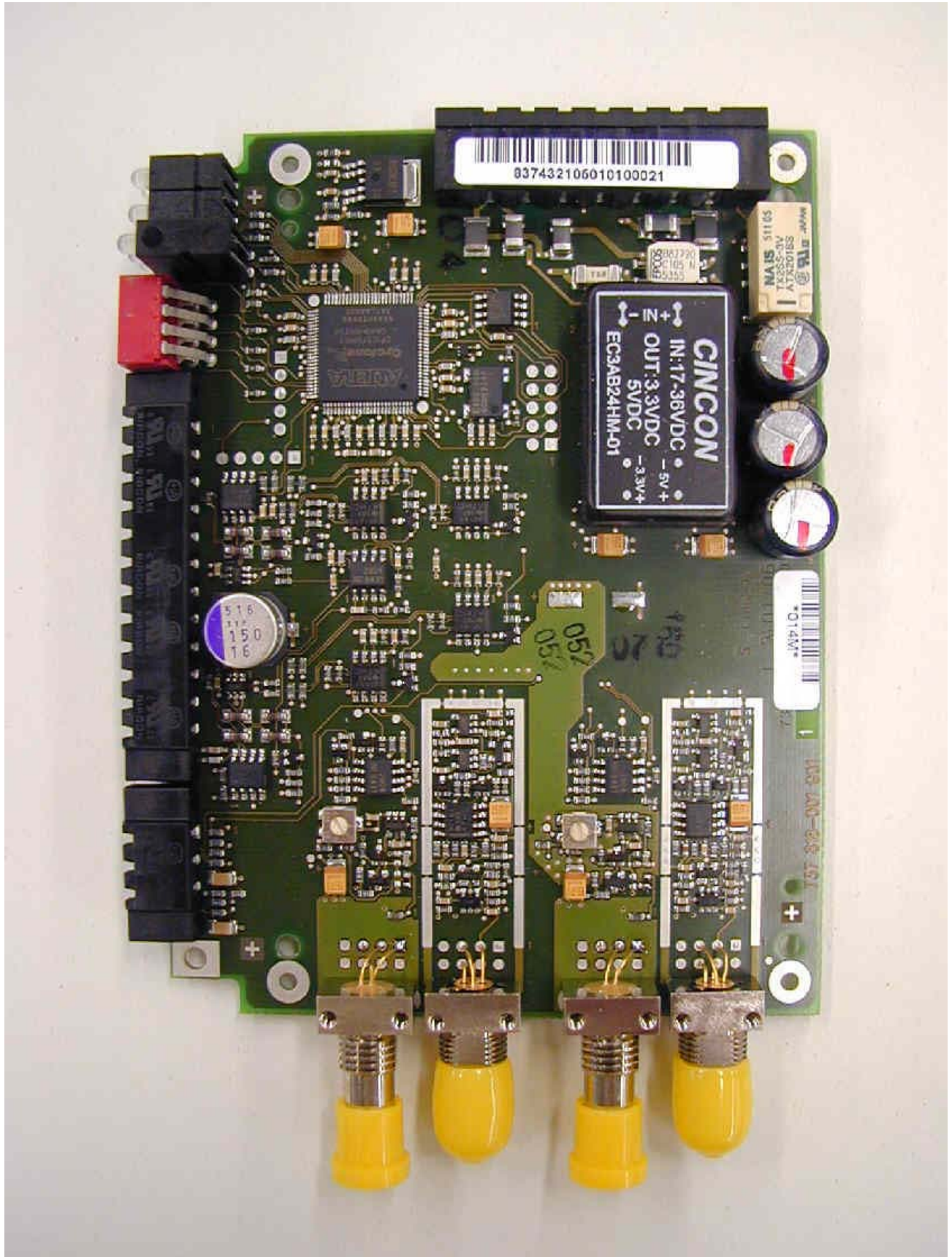
Alternate - same as above, except PHOENIX CONTACT GMBH & CO KG,
MC 1,5/3-STF-3.

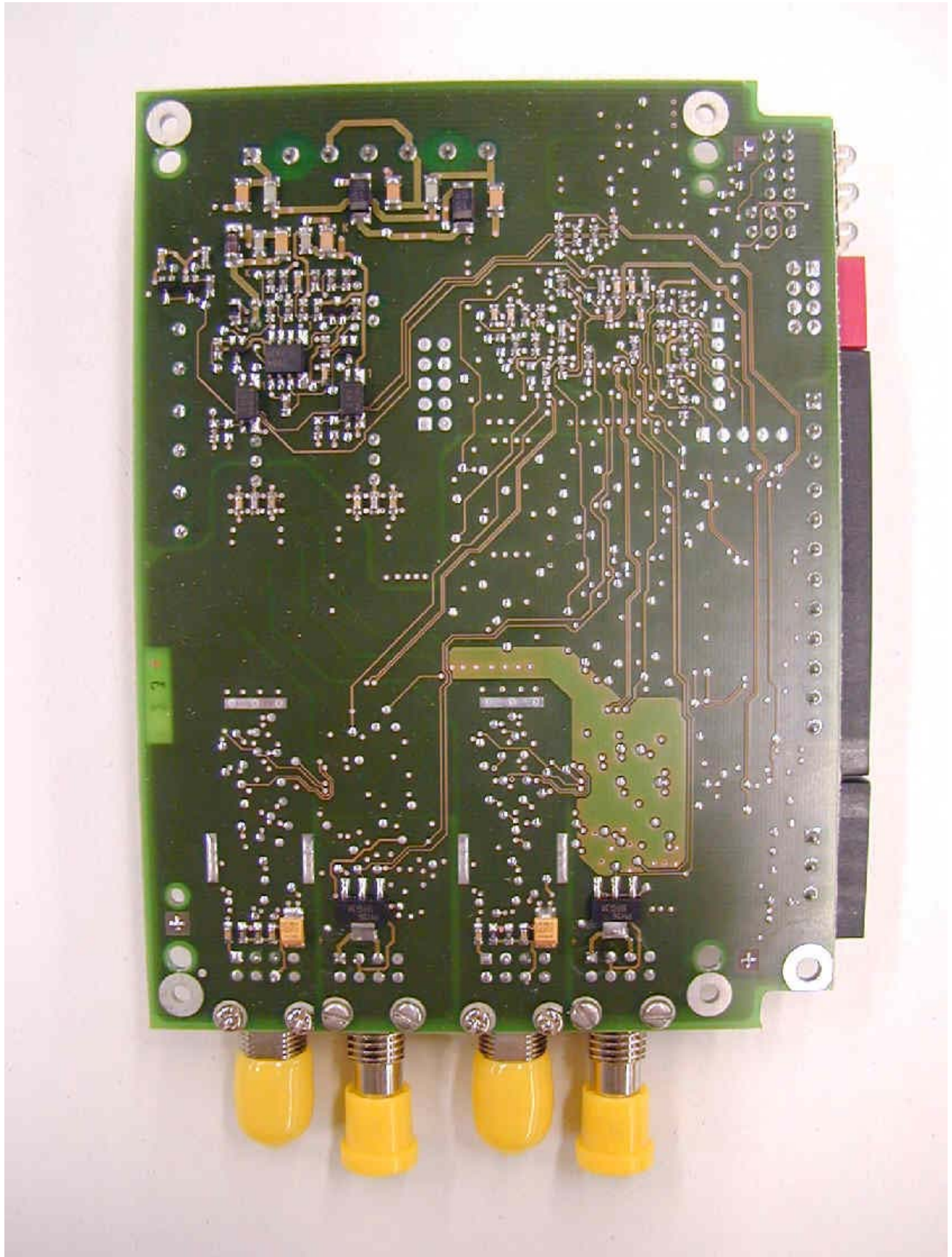


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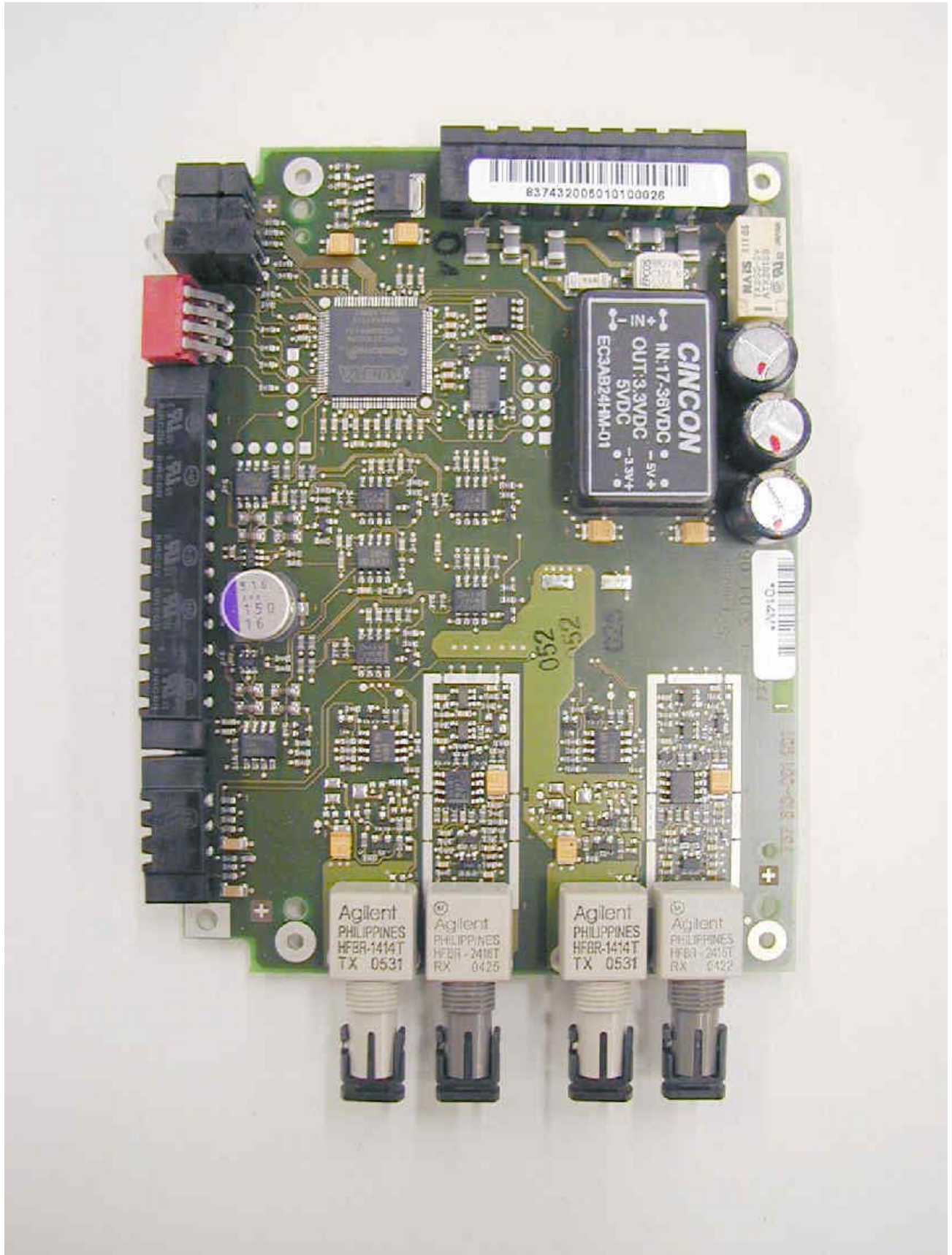
Alternate - same as above, except RIA CONNECT INC., Ria 218,
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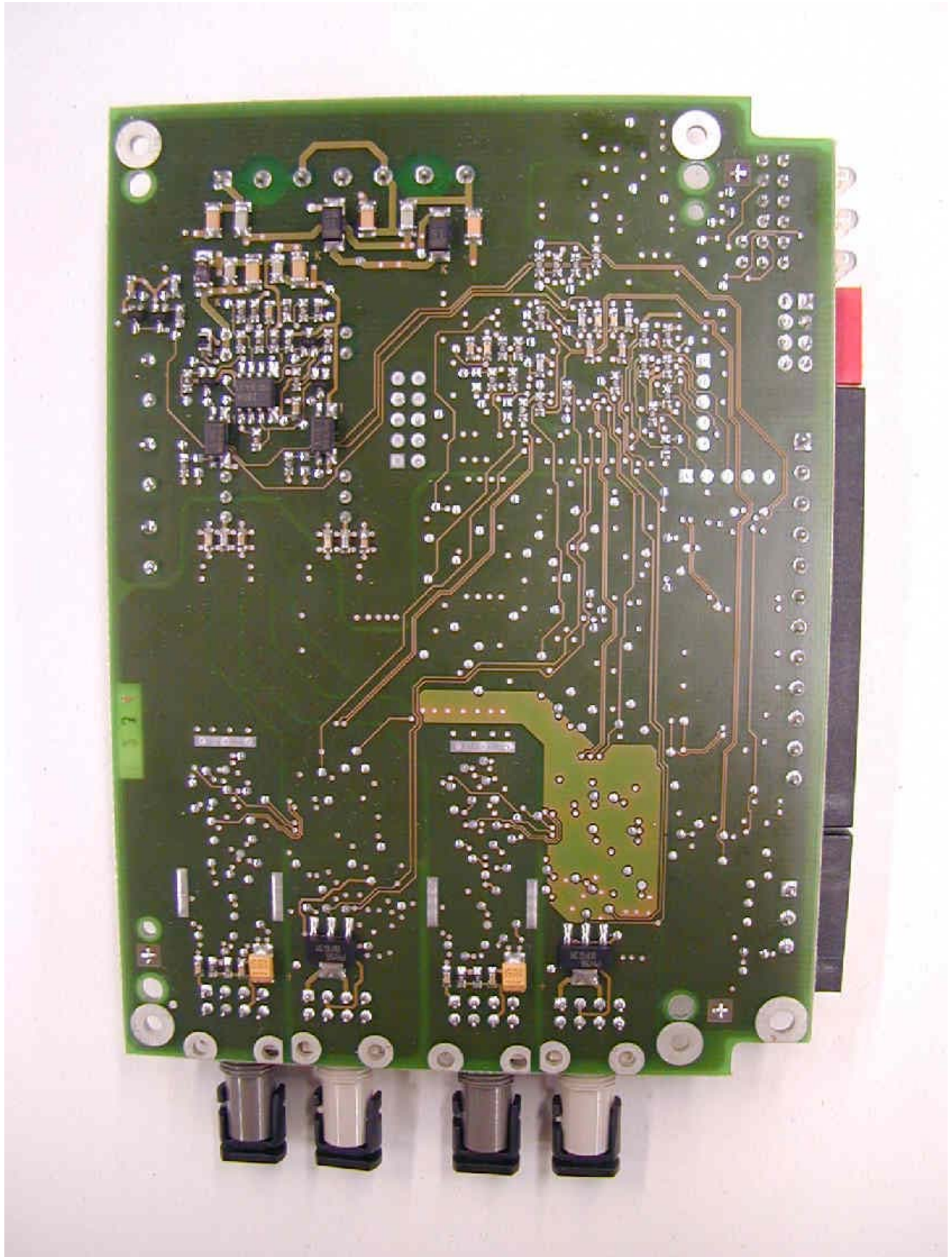
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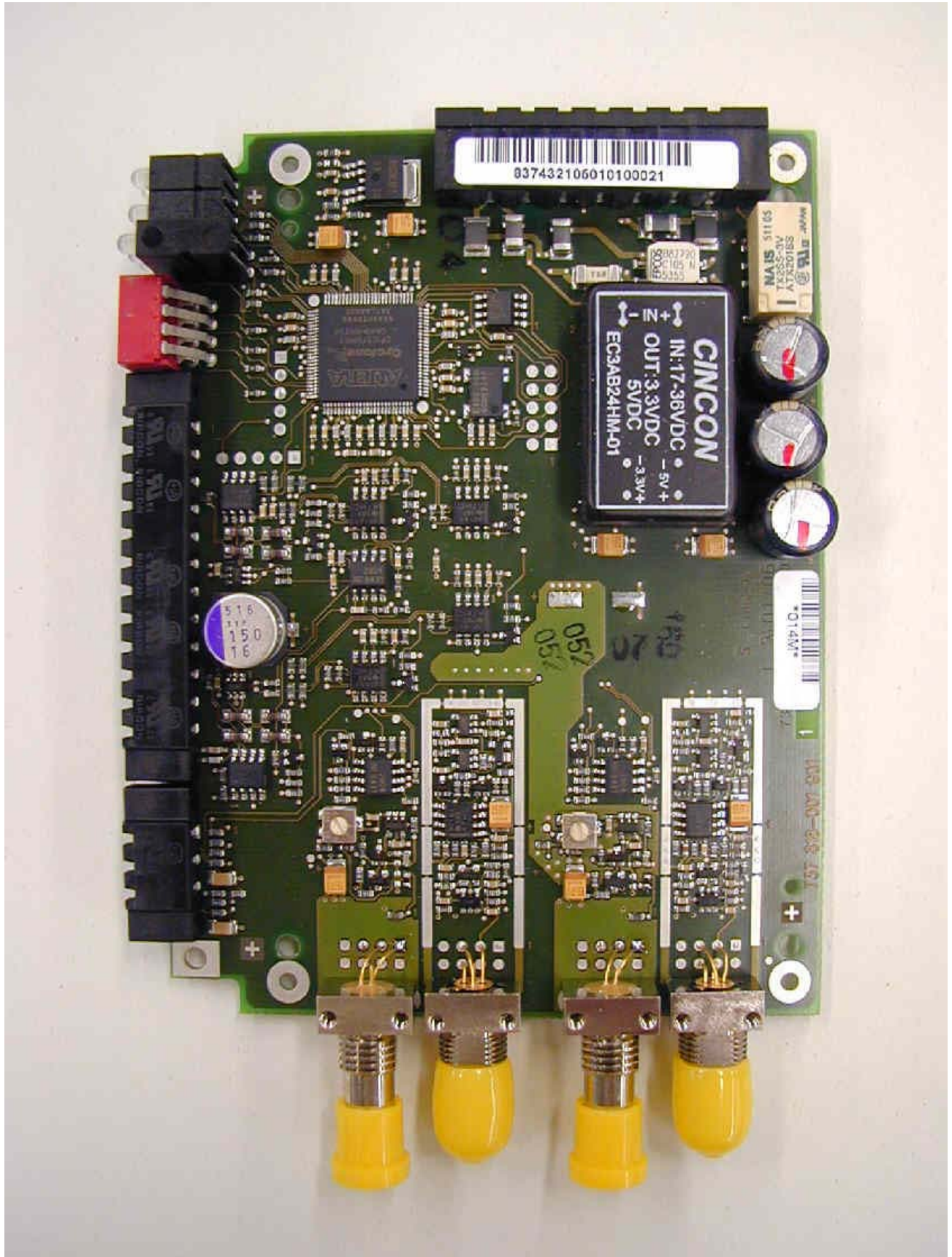
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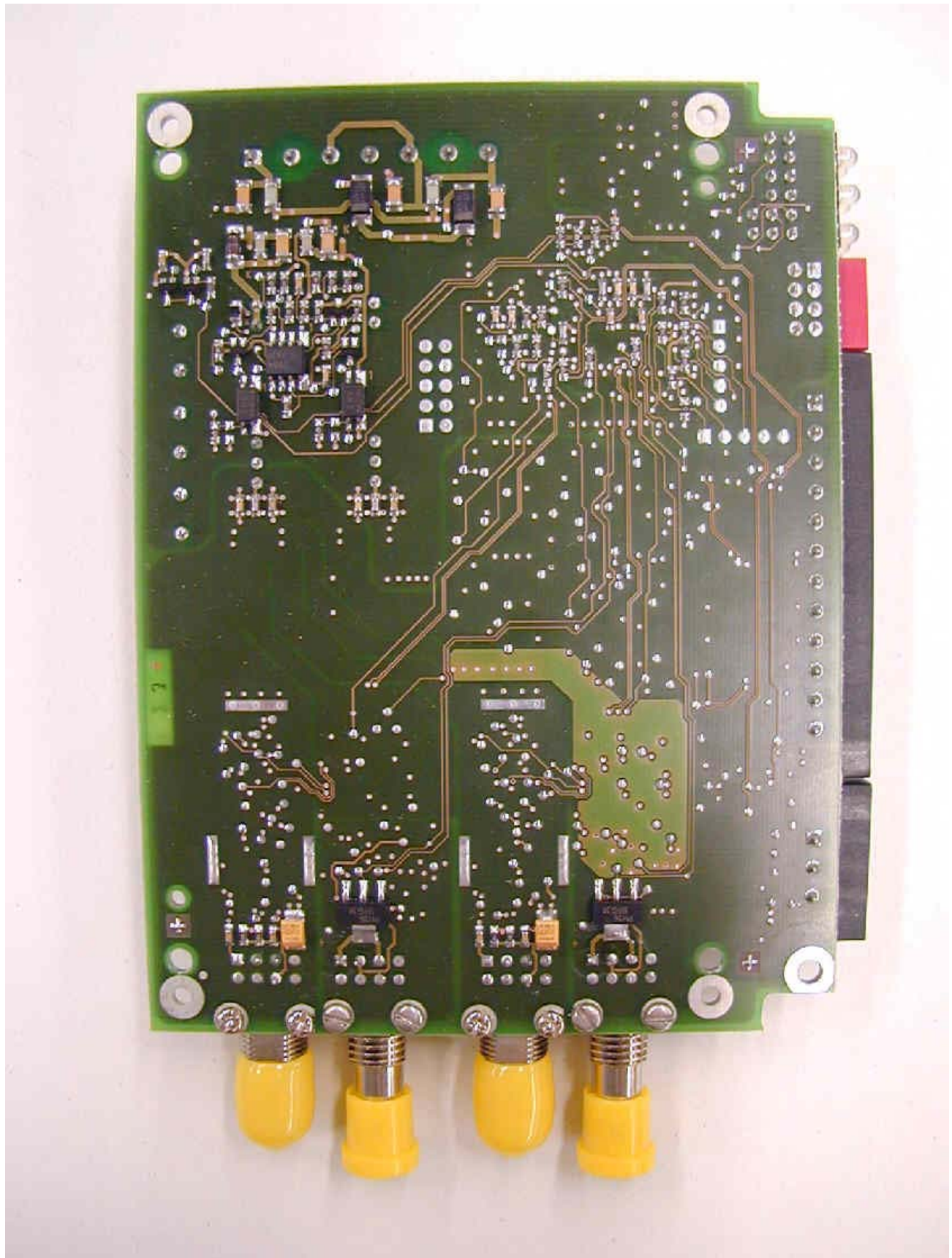


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TEST RECORD NO. 2

SAMPLES:

Representative production samples of the Cat No. OZD 485 G12 PRO as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

GENERAL:

Test results relate only to the items tested.

No tests were performed on the Cat No. OZD 485 G12 PRO due to connection to Class 2 supply only.

The results of the above examination have been reviewed and found to comply with the requirements in the Standard for Industrial Control Equipment, UL 508, 17th edition and CSA C22.2 No. 14-2005.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in Standard for Industrial Control Equipment, UL 508, 17th edition, with revisions through July 11, 2005 and CSA C22.2 No. 14-2005, dated April 2005, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Stefan Hochwart

Stefan Hochwart
Project Engineer

Reviewed by:

Hagen Dahrmann

Hagen Dahrmann
Senior Project Engineer

Supervised by:

Walter Hofmair

Walter Hofmair
Senior Project Engineer

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