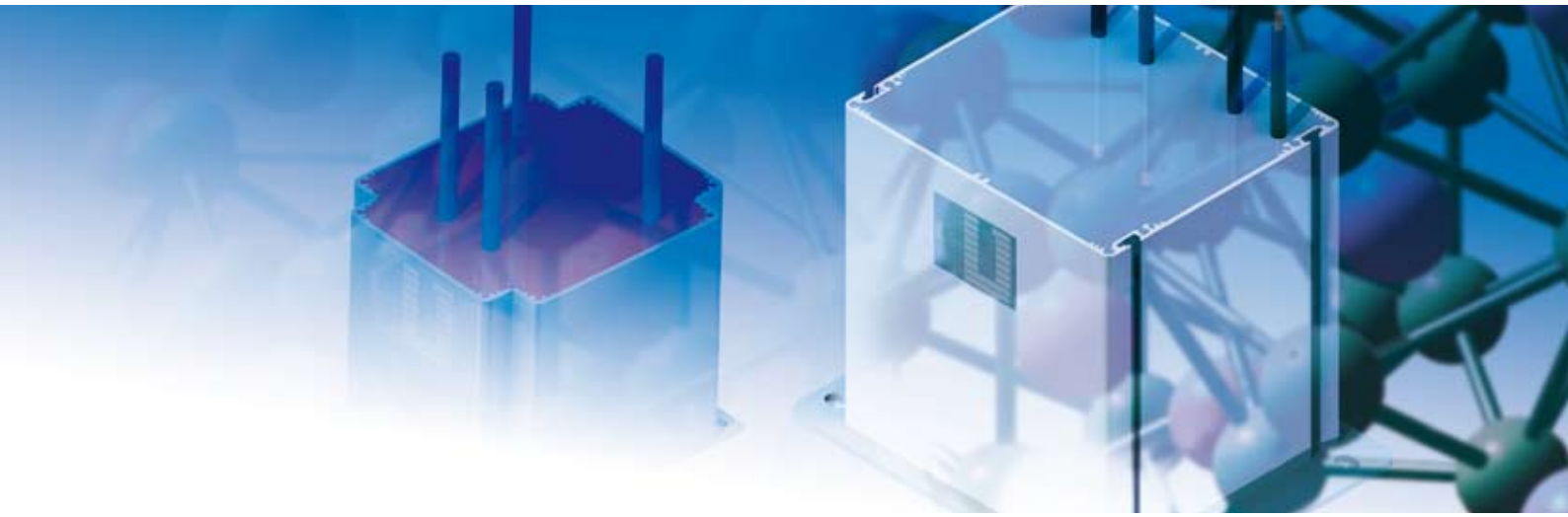
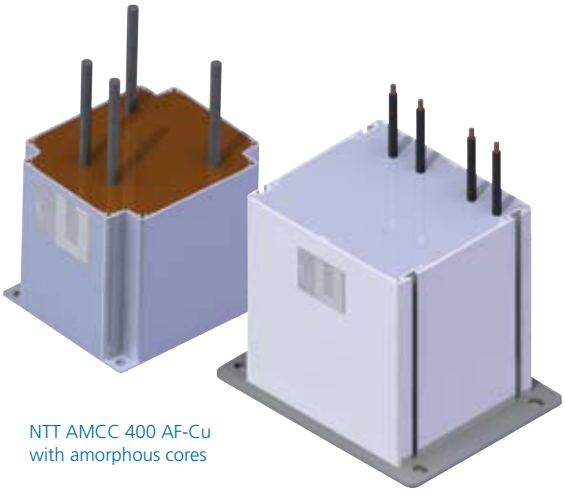
INDUCTIVE COMPONENTS



Chokes with amorphous and iron-based cores

REO buck-converter chokes



NTT AMCC 400 AF-Cu
with amorphous cores

NTT UI 114/50 AF-Cu

As a passive inductive component in power supplies and in power electronics, the buck-converter choke is used for attenuating undesirable frequencies or for saving and storing energy.

The term buck-converter choke indicates the complete ready-for-use unit containing the choke, air cooling, mounting and connections.

The chokes are available with different cores, which enables individual selection depending on the requirement of the application.
In addition to iron-based cores, chokes with cores of amorphous alloy are becoming more common, in the form of toroidal cores, cut strip-wound cores or special custom solutions.

The use of amorphous materials offers an exceptional combination of high saturation flux density (1.56 T) and a high permeability.
In addition to the high temperature class, further features of amorphous alloy include low hysteresis and eddy-current losses, suitability for the medium-frequency range (<20 kHz) and use for high powers up to 500 kVA.

Here is a summary of some of the benefits of the amorphous core type:

- Lower losses in comparison with grain-oriented sheet
- Can be used in the kHz region
- Equal or higher power ranges with smaller components
- Significantly lower weight
- High flux densities
- Usable up to temperature class H (180°C)
- Protection class IP 65

Technical data:

System voltage	500 – 1100 V
Rated inductance	0.2 mH
Max. permitted tolerances	(-10 % / +10 %)
Linearity, min.	0.2 mH @ 230 Aeff
Rated current	120 Aeff
Harmonic currents continuous / superimposed harmonics	60 Ass @ 19 kHz
Insulator material class	H
Type of cooling	AF
Rated voltage for the insulation	1200 Vdc
Test voltage	3.5 kV (50 Hz, 60 s)
Losses (heat)	≤ 170 W @ 120 °C

Headquarters - Germany

REO ELEKTRONIK AG
Brühler Straße 100 · D-42657 Solingen
Tel.: +49 (0)212 8804 0 · Fax: +49 (0)212 8804 188

REO INDUCTIVE COMPONENTS AG
Brühler Straße 100 · D-42657 Solingen
Tel.: +49 (0)212 8804 0 · Fax: +49 (0)212 8804 188

E-Mail: info@reo.de
Internet: www.reo.de

Divisions - Germany

REO INDUCTIVE COMPONENTS AG

REO Train Technologies Division

TrainTechnologies Division
Centre of Competence Berlin
Erasmusstraße 14 · D-10553 Berlin
Tel.: +49 (0)30 3670236 0 · Fax: +49 (0)30 3670236 10
E-Mail: zentrale.berlin@reo.de · Internet: www.reo.de

Fertigung/Production
TrainTechnologies Division
Eduard-Maurer-Straße 13 · D-16761 Hennigsdorf

REO IBK Drives Division

IBK Drives Division
Holzhausener Straße 52 · D-16866 Kyritz
Tel.: +49 (0)33971 485 0 · Fax: +49 (0)33971 485 90
E-Mail: ibk@reo.de · Internet: www.reo.de

REO Setzermann Medical Division

Setzermann Medical Division
Schuldholzinger Weg 7 · D-84347 Pfarrkirchen
Tel.: +49 (0)8561 9886 0 · Fax: +49 (0)8561 9886 40
E-Mail: setzermann@reo.de · Internet: www.reo.de

REO Test and PowerQuality Division

Test and PowerQuality Division
Brühler Straße 100 · D-42657 Solingen
Tel.: +49 (0)212 8804 0 · Fax: +49 (0)212 8804 188
E-Mail: main@reo.de · Internet: www.reo.de

China

REO Shanghai Inductive Components Co., Ltd
No. 536 ShangFeng Road · Pudong, 201201 Shanghai · China
Tel.: +86 (0)21 5858 0686 · Fax: +86 (0)21 5858 0289
E-Mail: info@reo.cn · Internet: www.reo.cn

France

REO VARIAC S.A.R.L.
ZAC Du Clos aux Pois 1 · 6/8 rue de la Closerie-LISSES· F-91048 Evry Cédex
Tel.: +33 (0)1 6911 1898 · Fax: +33 (0)1 6911 0918
E-Mail: reovariac@reo.fr · Internet: www.reo.fr

Great Britain

REO (UK) Ltd.
Units 2-4 Callow Hill Road · Craven Arms · Shropshire SY7 8NT · UK
Tel.: +44 (0)1588 673 411 · Fax: +44 (0)1588 672 718
E-Mail: main@reo.co.uk · Internet: www.reo.co.uk

India

REO GPD INDUCTIVE COMPONENTS PVT. LTD
2/202 Luna Road · Village Luna · Taluka Padra
Vadodara - 391440 · India
Tel.: +91 (2662) 221723, +91 (265) 2396148 · Fax: +91 (265) 2396971
E-Mail: info@reogpd.com · Internet: www.reo-ag.in

Italy

REO ITALIA S.r.l.
Via Treponti, 29 · I-25086 Rezzato (BS)
Tel.: +39 030 279 3883 · Fax: +39 030 279 0600
E-Mail: info@reoitalia.it · Internet: www.reoitalia.it

Poland

REO CROMA Sp.zo.o
ul. Pozaryskiego 28, bud 20 · PL-04-703 Warszawa
Tel.: +48 (0)22 812 3066 · Fax: +48 (0)22 815 6906
E-Mail: croma@croma.com.pl · Internet: www.croma.com.pl

Russia

REO RUSSIA Ltd.
17/2, Dorozhnaya st., · Voronezh 394062 · RUSSIA
Tel.: +7 (0)4732 202 453 · Fax: +7 (0)4732 707 011
E-Mail: info@reo-russia.ru · Internet: www.reo-russia.ru

Spain

REO ESPAÑA 2002 S.A.
C/Manuel Ventura i Campeny 21B · local 9 · E-08339 Vilassar de Dalt (Barcelona)
Tel.: +34 937 509 994 · Fax: +34 937 509 995
E-Mail: info@reospain.com · Internet: www.reospain.com

Switzerland

REO ELEKTRONIK AG
Im Halbiacker 5a · CH-8352 Elsau
Tel.: +41 (0)52 363 2820 · Fax: +41 (0)52 363 1241
E-Mail: info@reo.ch · Internet: www.reo.ch

Turkey

REOTURKEY ELEKTRONİK San. ve Tic. Ltd. Şti.
Halil Rıfatpasa Mah. · Darülceze CD Perpa Tic Merkezi
B Blok Kat 8 No:1095 · TR-34384 Sisli – Istanbul
Tel.: +90 (0)212 2215 118 · Fax: +90 (0)212 2215 119
E-Mail: info@reo-turkey.com · Internet: www.reo-turkey.com

USA

REO-USA, Inc.
8450 E. 47th St · USA-Indianapolis, IN 46226
Tel.: +1 (317) 899 1395 · Fax: +1 (317) 899 1396
E-Mail: info@reo-usa.com · Internet: www.reo-usa.com