

DATA SHEET

3C90 Material specification

Supersedes data of September 2004

2008 Sep 01

Material specification

3C90

3C90 SPECIFICATIONS

A low frequency power material for use in power and general purpose transformers at frequencies up to 0.2 MHz.

	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	2300 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	5500 $\pm 25\%$	
B	25 °C; 10 kHz; 1200 A/m	≈ 470	mT
	100 °C; 10 kHz; 1200 A/m	≈ 380	mT
P_V	100 °C; 25 kHz; 200 mT	≤ 80	kW/m ³
	100 °C; 100 kHz; 100 mT	≤ 80	
	100 °C; 100 kHz; 200 mT	≈ 450	
ρ	DC, 25 °C	≈ 5	Ωm
T_C		≥ 220	°C
density		≈ 4800	kg/m ³

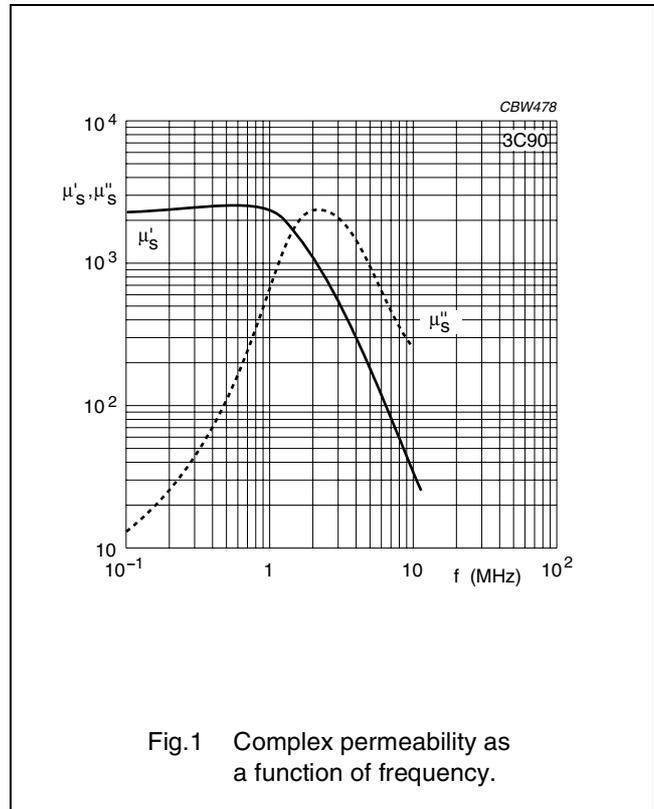


Fig.1 Complex permeability as a function of frequency.

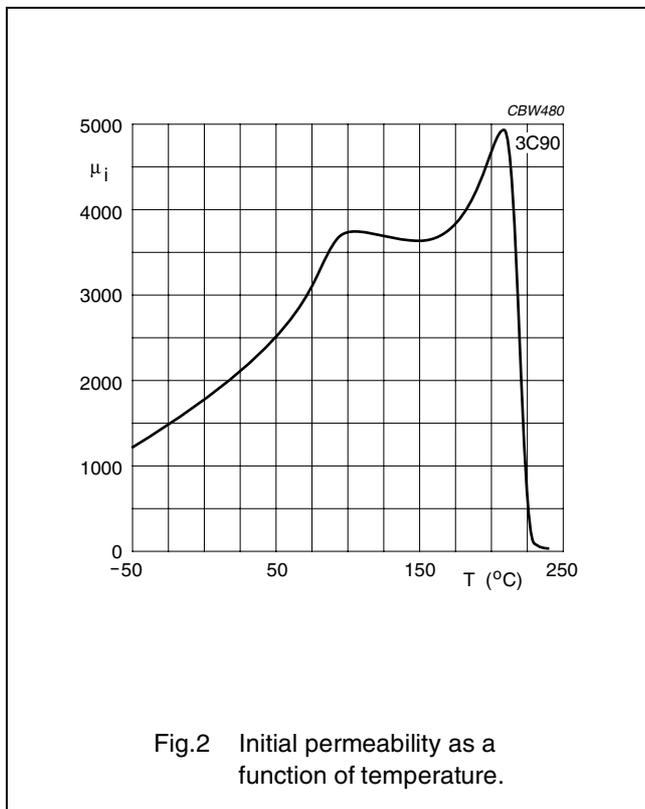


Fig.2 Initial permeability as a function of temperature.

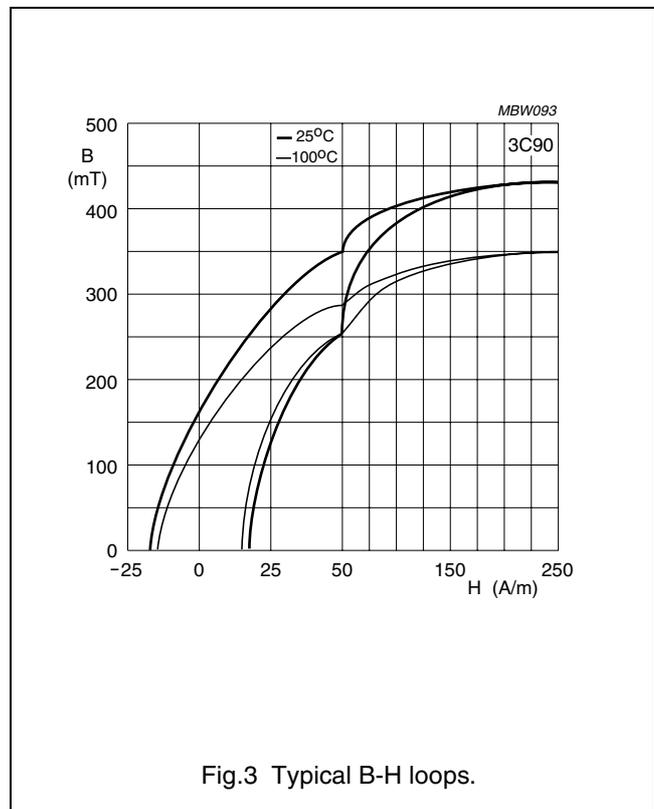
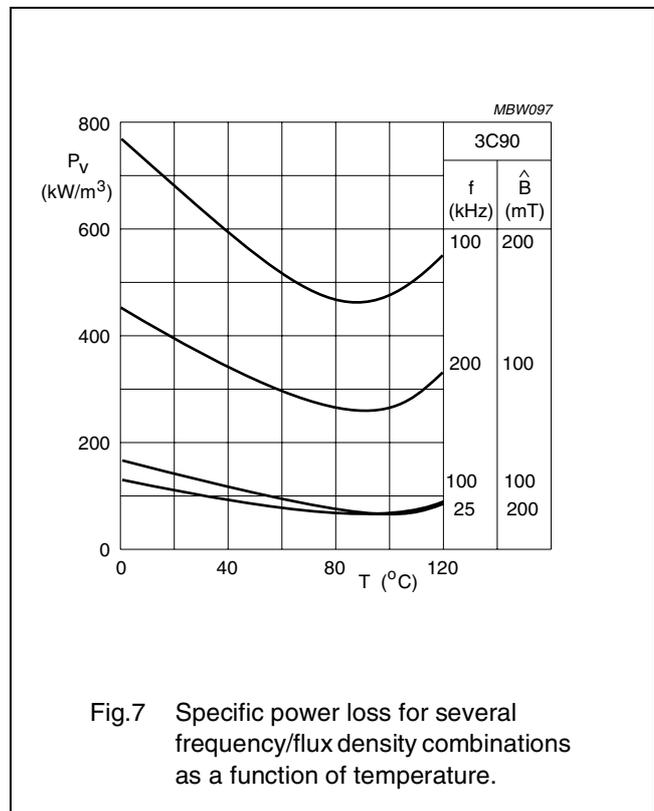
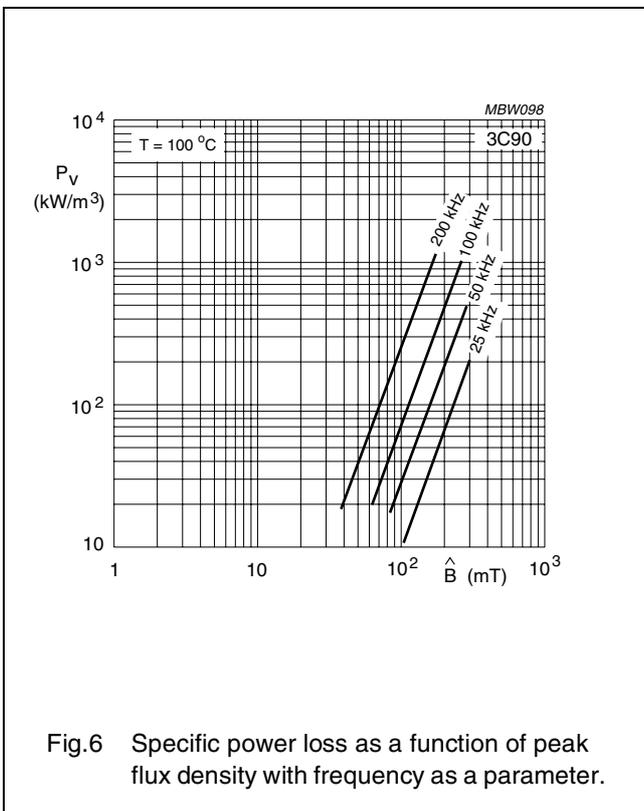
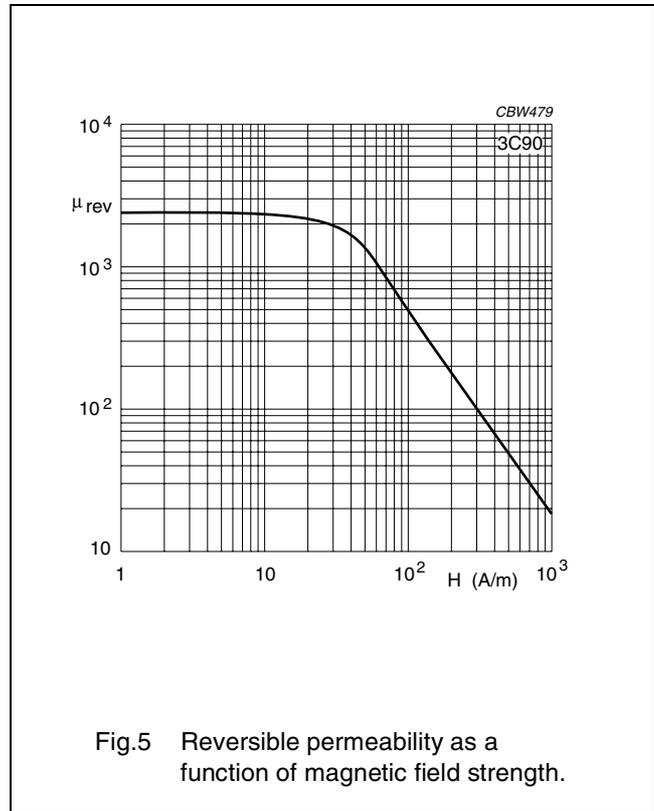
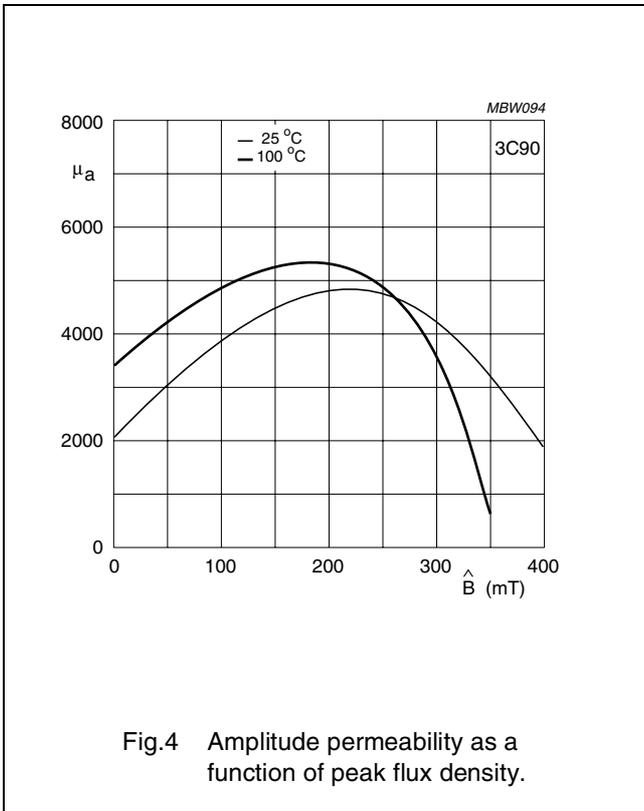


Fig.3 Typical B-H loops.



DATA SHEET STATUS DEFINITIONS

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DATA SHEET

3C91 Material specification

Supersedes data of September 2004

2008 Sep 01

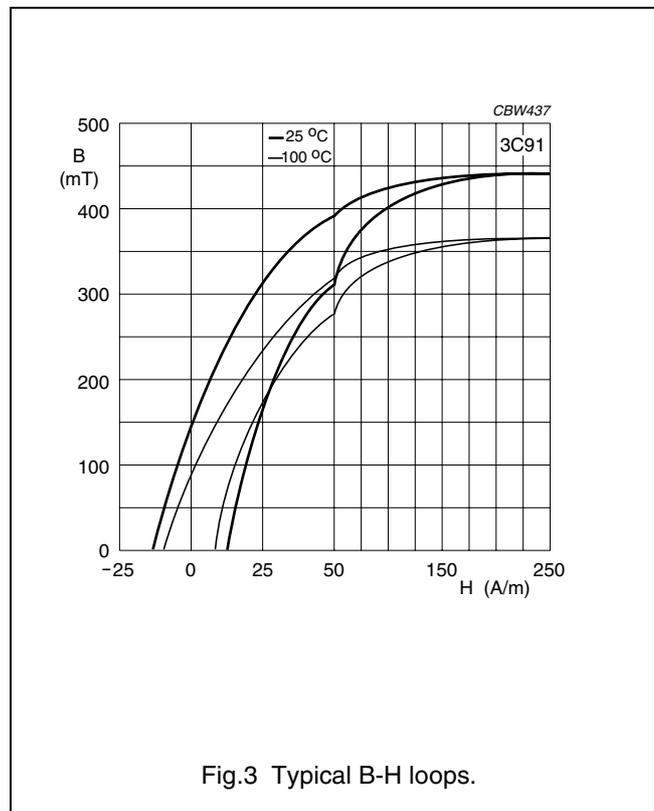
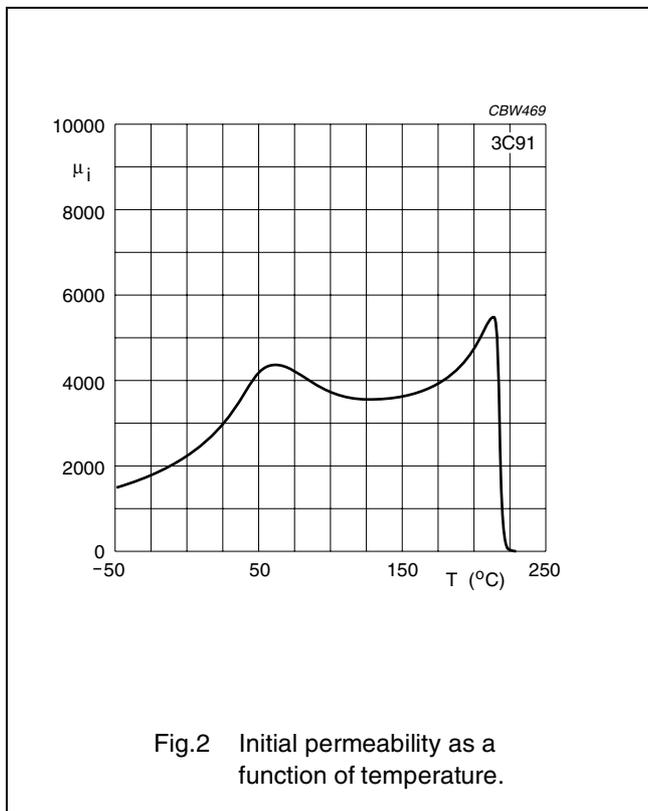
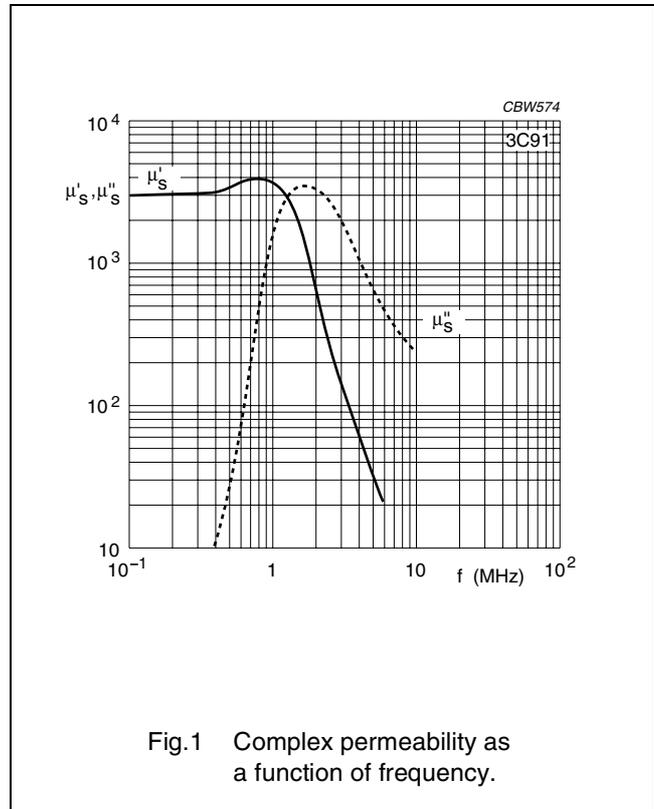
Material specification

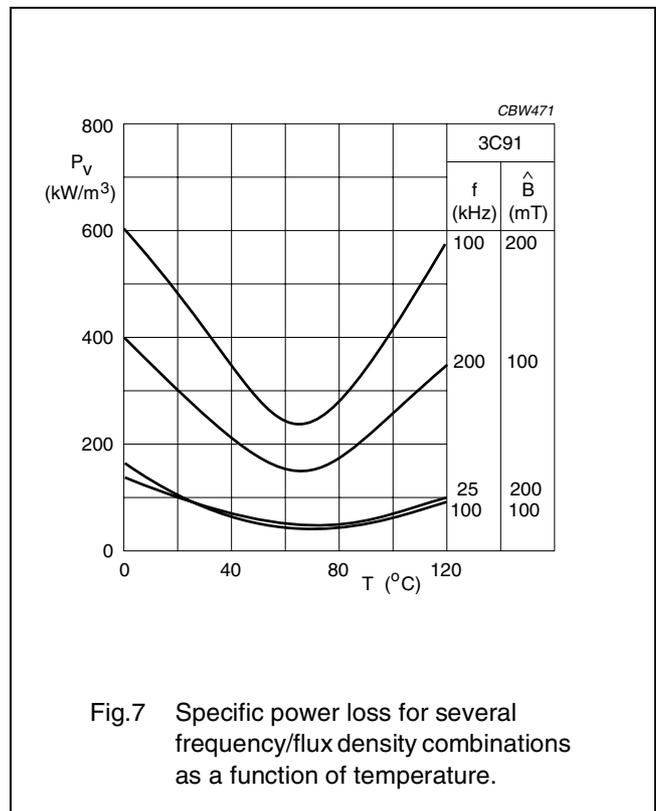
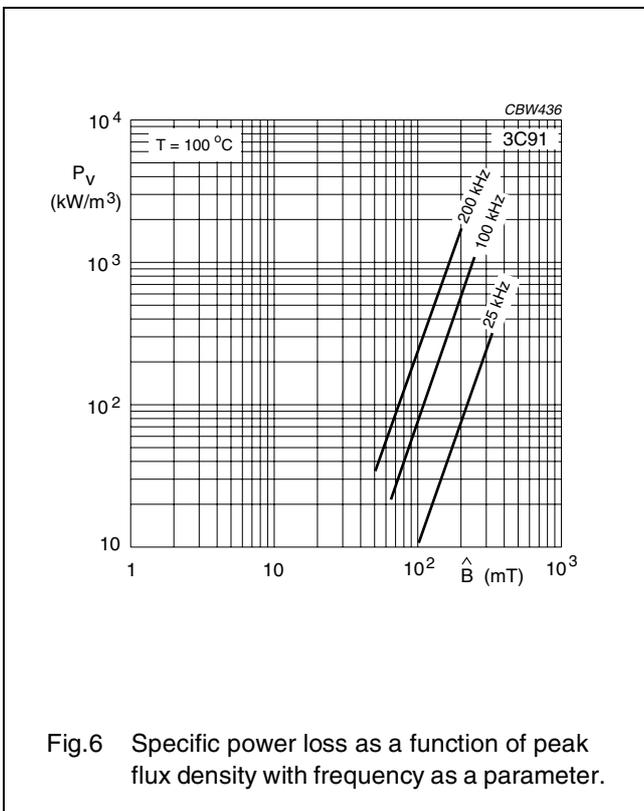
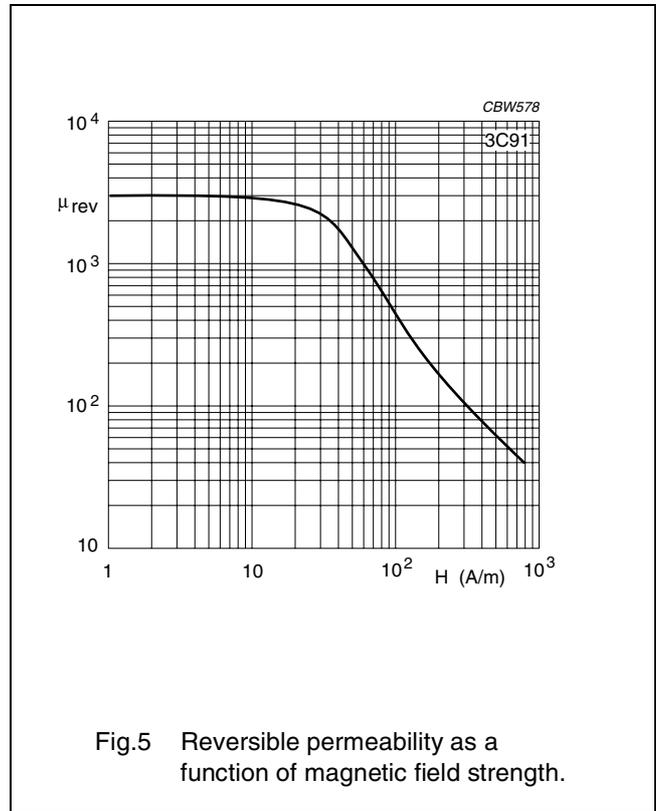
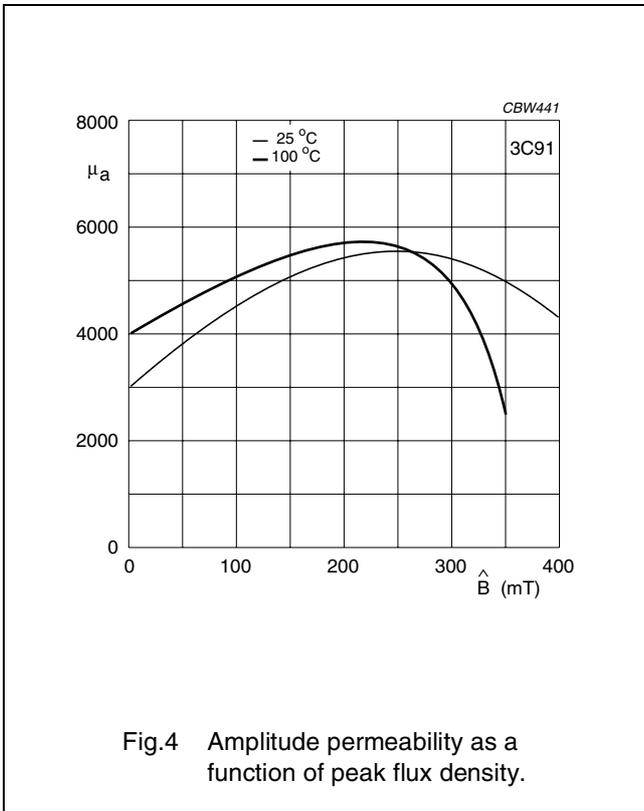
3C91

3C91 SPECIFICATIONS

A medium frequency power material with minimum power losses around 60 °C for use in power and general purpose transformers at frequencies up to 0.3 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	3000 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	5500 $\pm 25\%$	
B	25 °C; 10 kHz; 1200 A/m	≈ 470	mT
	100 °C; 10 kHz; 1200 A/m	≈ 370	mT
P _V	60 °C; 100 kHz; 100 mT	≤ 40	kW/m ³
	60 °C; 100 kHz; 200 mT	≈ 300	
ρ	DC, 25 °C	≈ 5	Ωm
T _C		≥ 220	°C
density		≈ 4800	kg/m ³





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3C92 SPECIFICATIONS

A low frequency, high Bsat power material for use in power inductors at frequencies up to 0.2 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	1500 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 5000	
B	25 °C; 10 kHz; 1200 A/m 100 °C; 10 kHz; 1200 A/m 140 °C; 10 kHz; 1200 A/m	≈ 540 ≈ 460 ≈ 400	mT
P_v	100 °C; 100 kHz; 100 mT 100 °C; 100 kHz; 200 mT	≈ 50 ≈ 350	kW/m ³
ρ	DC; 25 °C	≈ 5	Ωm
T_C		≥ 270	°C
density		≈ 4800	kg/m ³

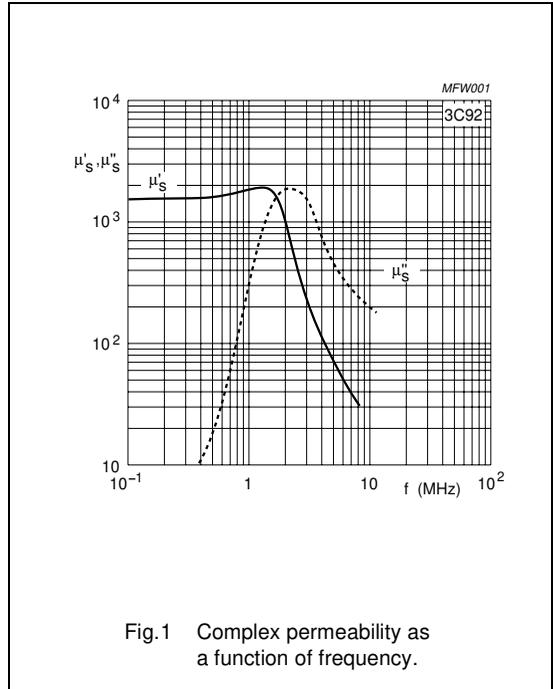


Fig. 1 Complex permeability as a function of frequency.

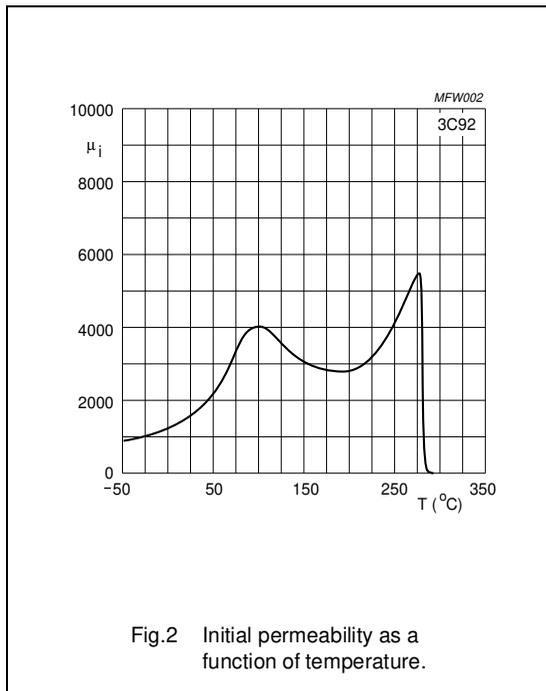


Fig. 2 Initial permeability as a function of temperature.

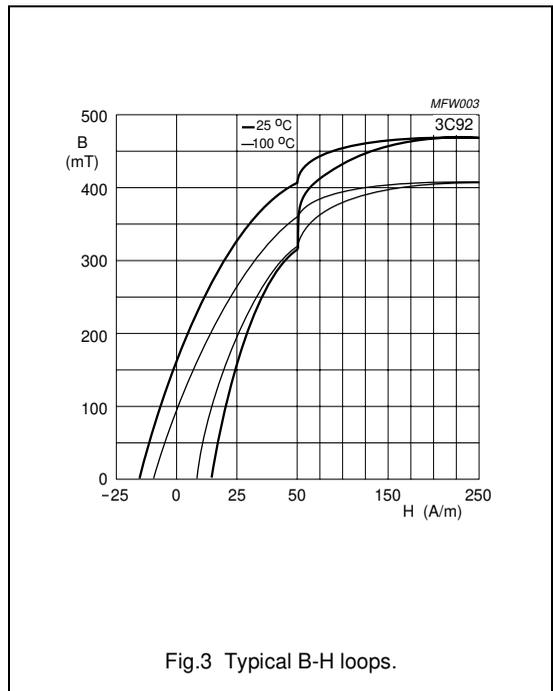
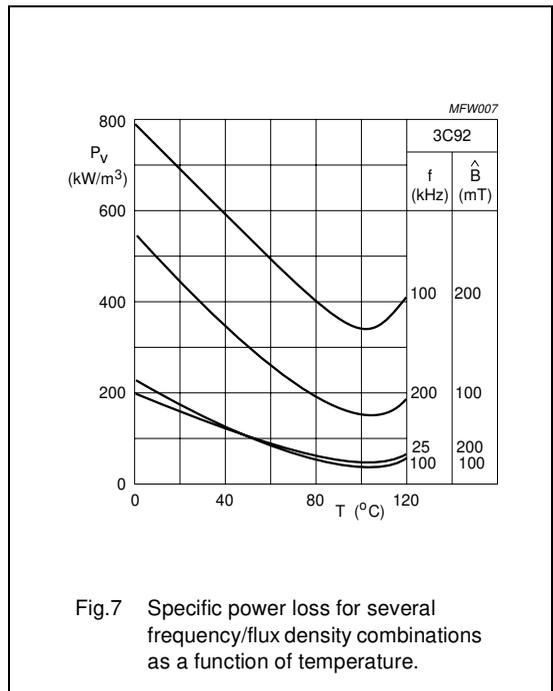
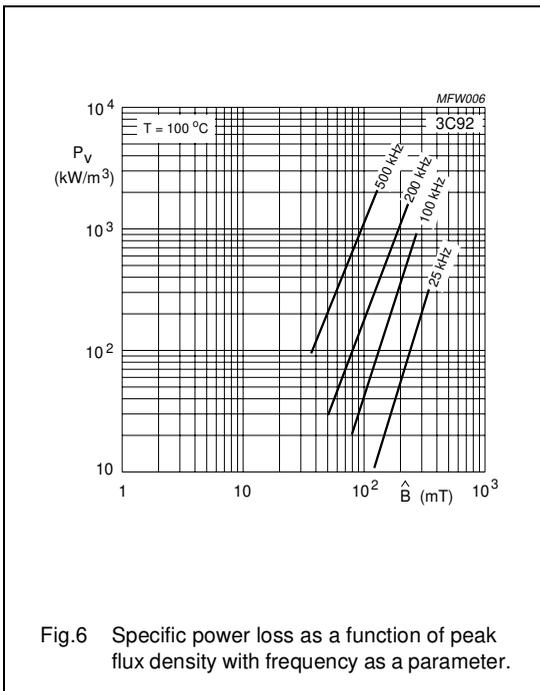
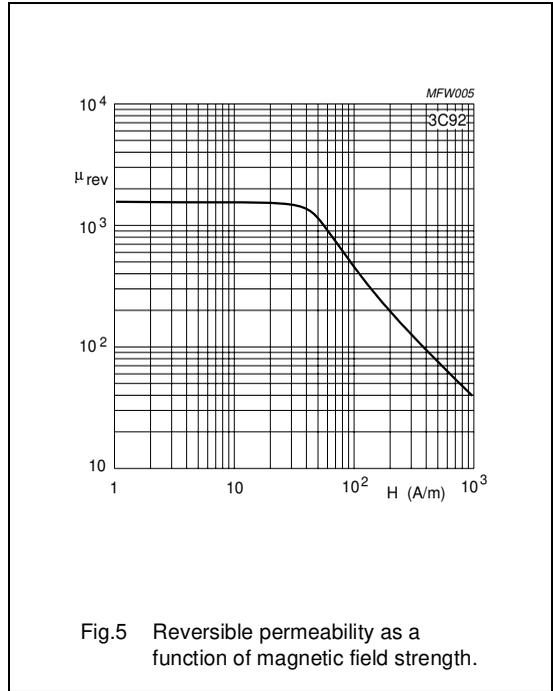
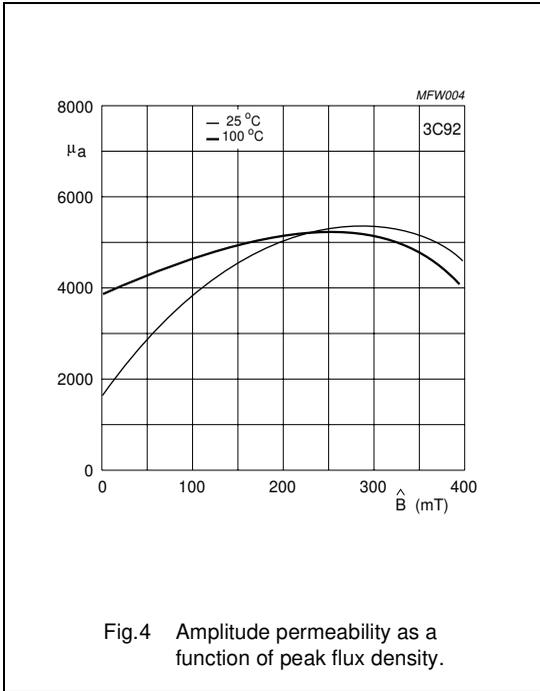


Fig. 3 Typical B-H loops.



DATA SHEET

3C92A

Material specification

2020 June 08



3C92A SPECIFICATION

A low to medium frequency power material with high saturation, dedicated for application with high dc current like output chokes, power inverters, DC-DC converters. Available in selected product range, up to 40 mm size.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	1800 ± 25%	
μ_a	100°C; 25kHz; 200mT	≈ 5500	
B	25°C; 10kHz; 1200A/m	≈ 570	mT
	100°C; 10kHz; 1200A/m	≈ 480	
	140°C; 10kHz; 1200A/m	≈ 400	
P _v	100°C; 100kHz; 200mT	≈ 300	kW / m ³
ρ_{DC}	25°C	≈ 5	Ωm
T _c		≥ 270	°C
density		≈ 4900	kg / m ³

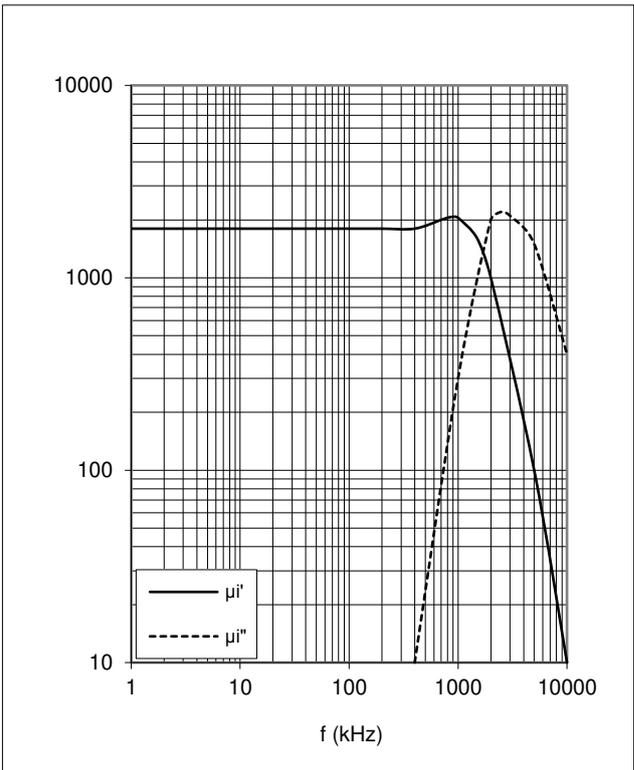


Fig.1 Complex permeability as function of frequency

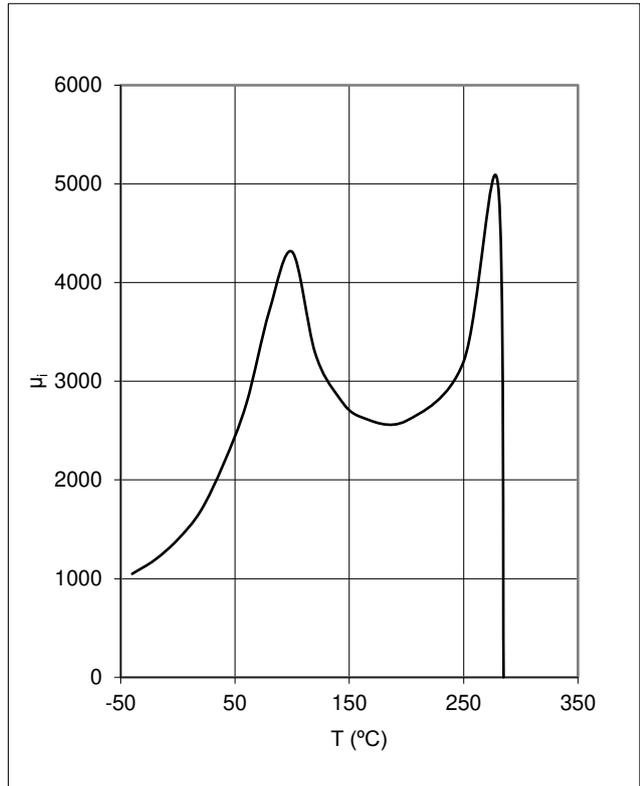


Fig.2 Permeability as function of temperature

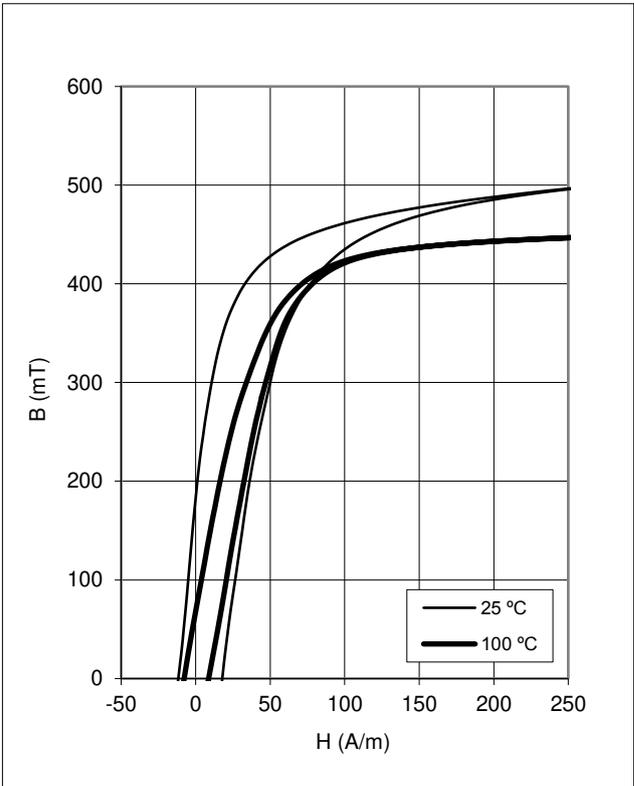
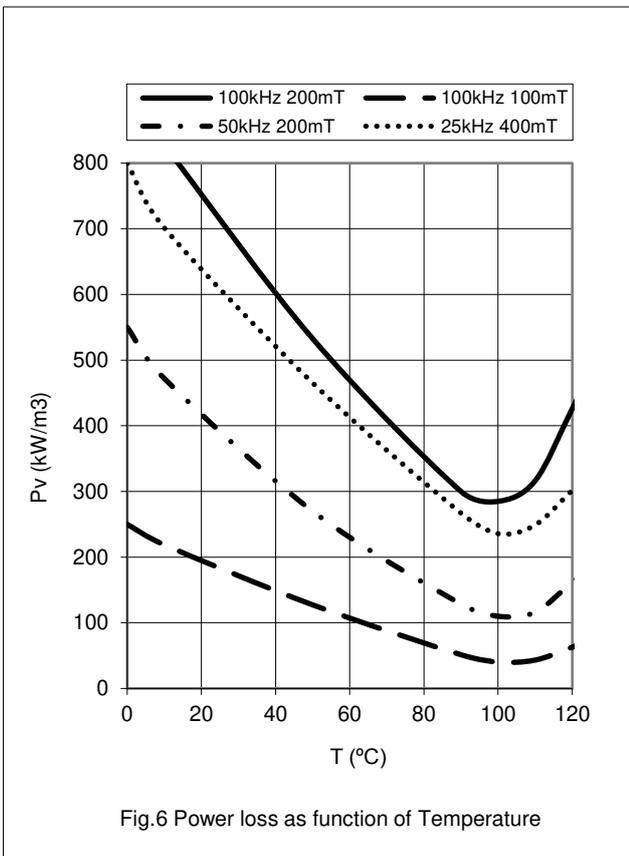
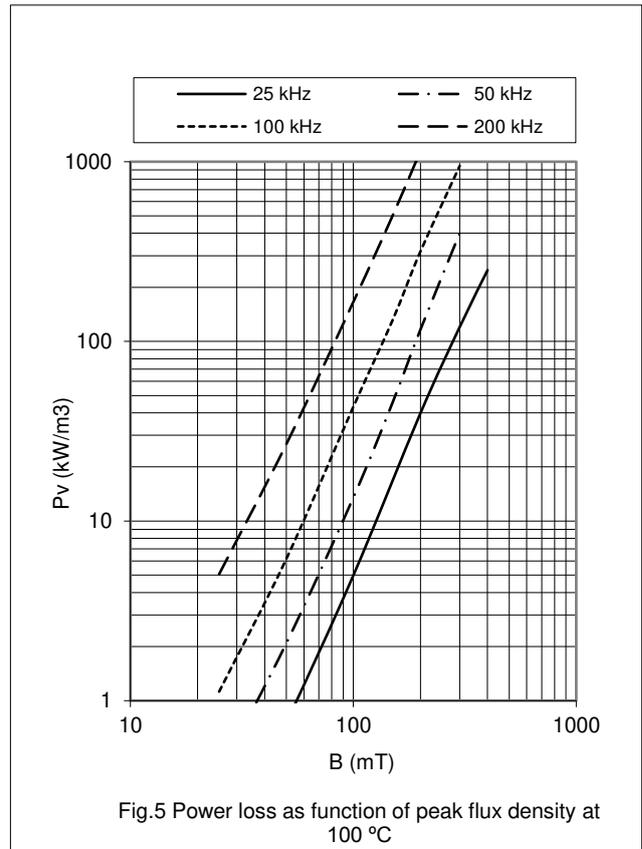
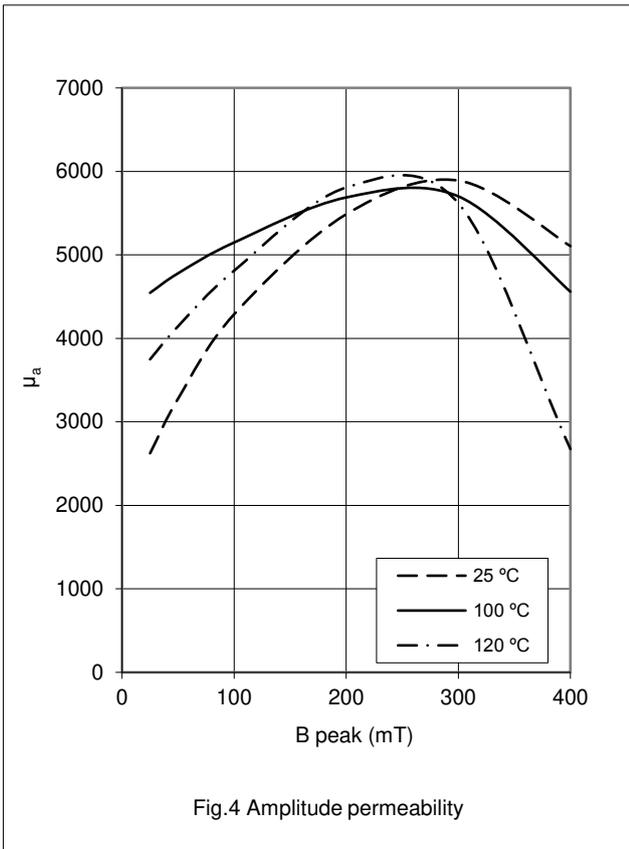


Fig.3 Typical BH loop



DATA SHEET

3C93 Material specification

Supersedes data of September 2004

2008 Sep 01

Material specification

3C93

3C93 SPECIFICATIONS

A low to medium frequency power material with minimum power losses around 140 °C for use in power transformers at frequencies up to 0.5 MHz.

	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	1800 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 5000	
B	25 °C; 10 kHz; 1200 A/m 100 °C; 10 kHz; 1200 A/m 140 °C; 10 kHz; 1200 A/m	≈ 520 ≈ 430 ≈ 360	mT
P_V	140 °C; 100 kHz; 100 mT 140 °C; 100 kHz; 200 mT 140 °C; 500 kHz; 50 mT	≈ 50 ≈ 350 ≈ 300	kW/m ³
ρ	DC; 25 °C	≈ 5	Ωm
T_C		≥ 240	°C
density		≈ 4800	kg/m ³

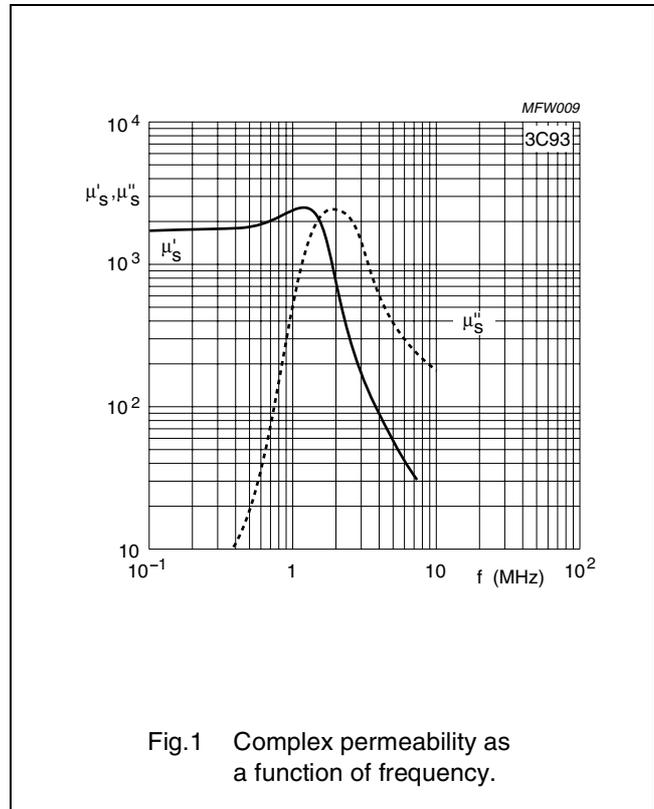


Fig.1 Complex permeability as a function of frequency.

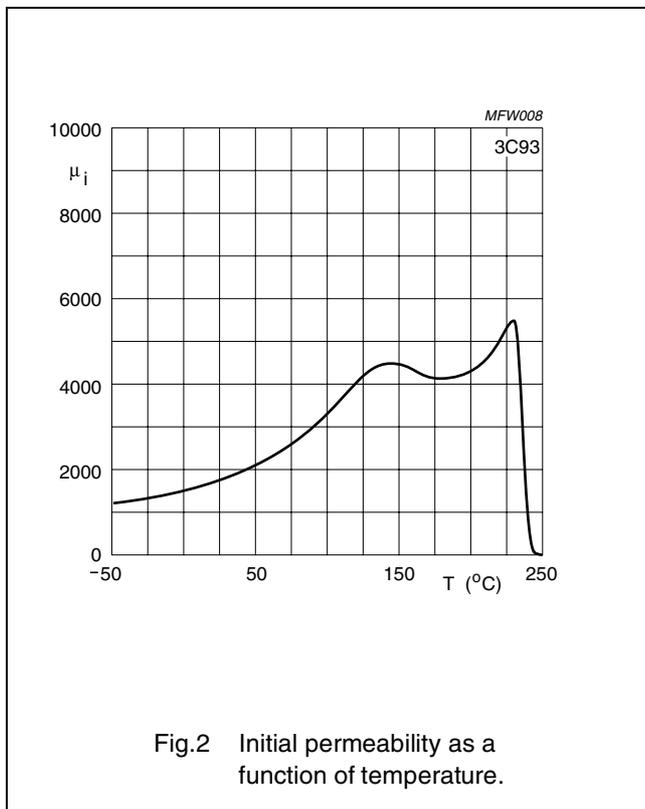


Fig.2 Initial permeability as a function of temperature.

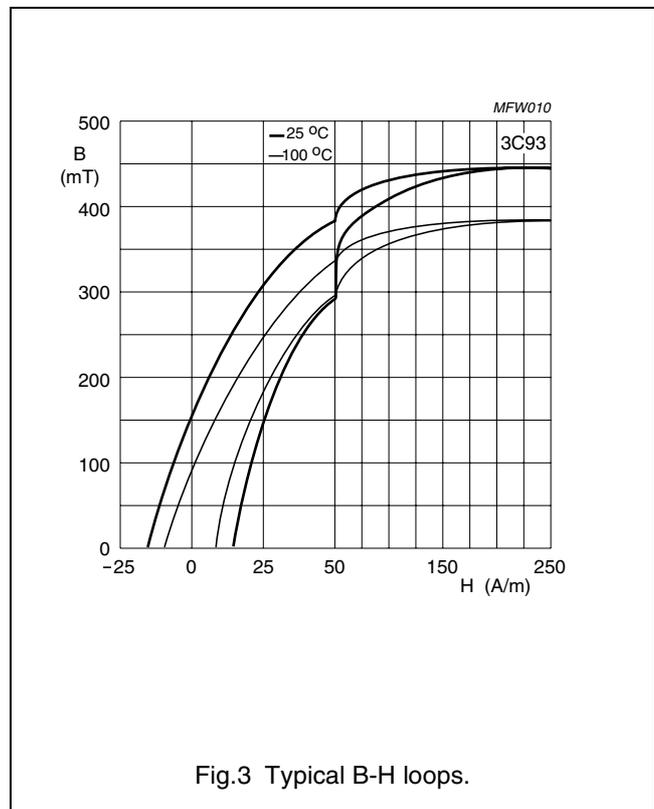
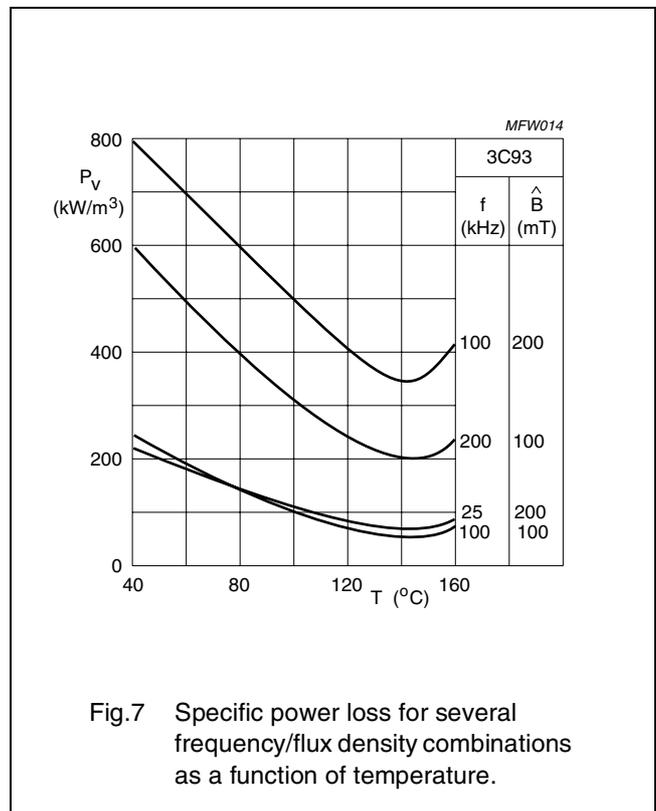
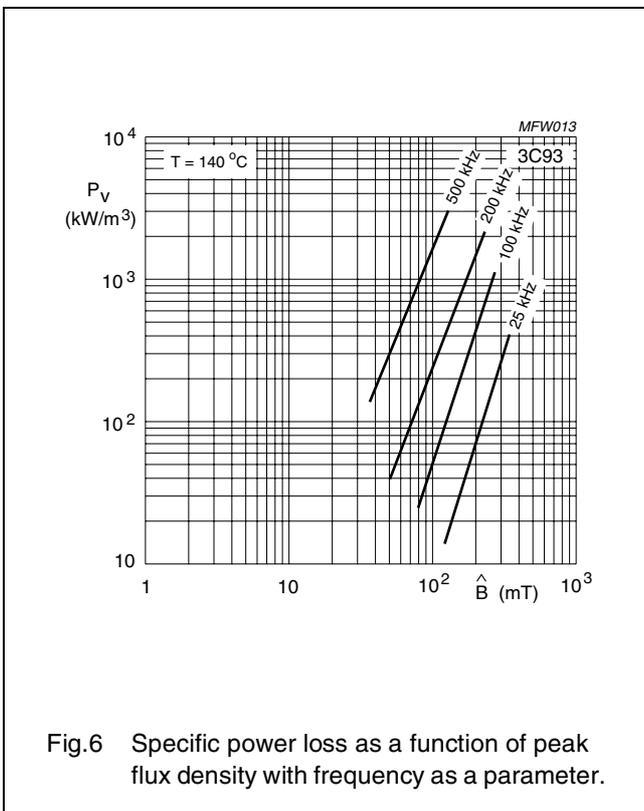
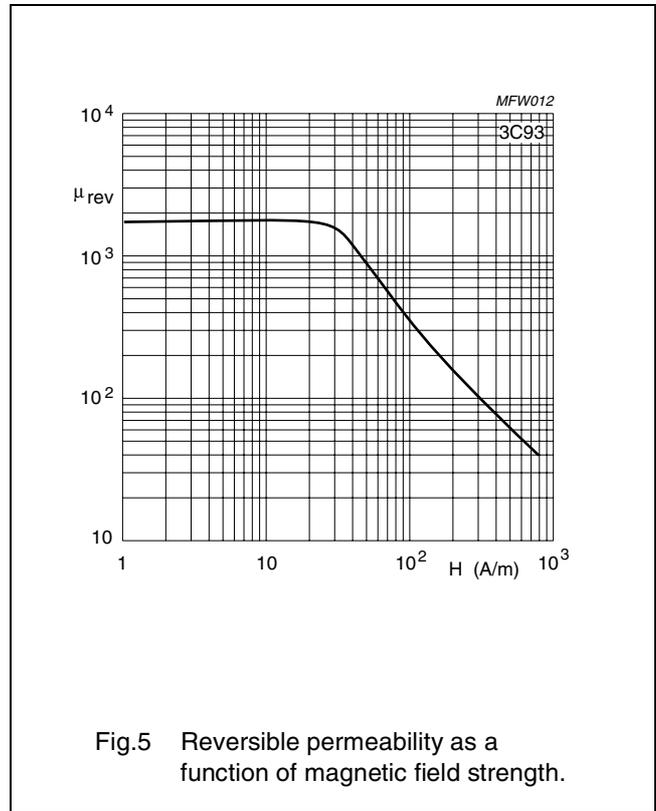
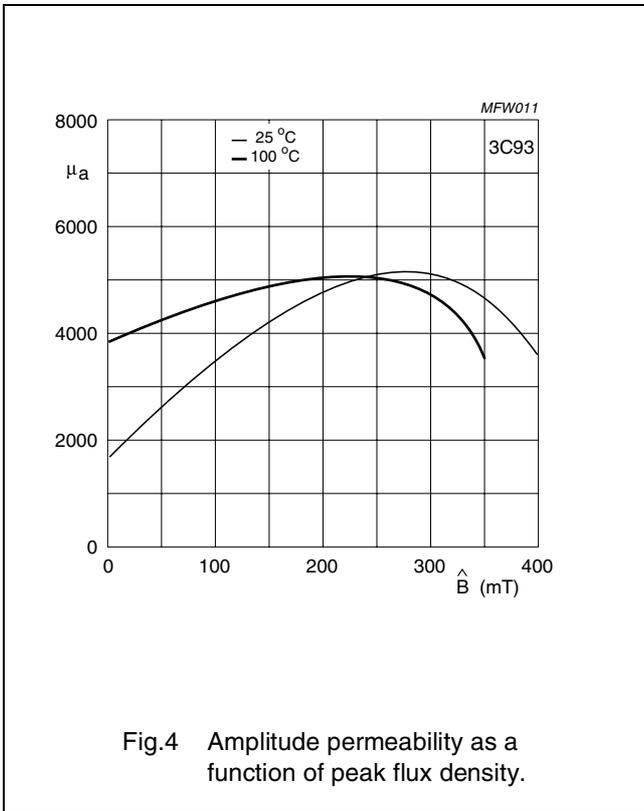


Fig.3 Typical B-H loops.



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DATA SHEET

3C94 Material specification

Supersedes data of September 2004

2008 Sep 01

Material specification

3C94

3C94 SPECIFICATIONS

A low frequency power material for use in power and general purpose transformers at frequencies up to 0.3 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	2300 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	5500 $\pm 25\%$	
B	25 °C; 10 kHz; 1200 A/m 100 °C; 10 kHz; 1200 A/m	≈ 470 ≈ 380	mT
P_V	100 °C; 100 kHz; 100 mT 100 °C; 100 kHz; 200 mT	≈ 50 ≈ 350	kW/m ³
ρ	DC, 25 °C	≈ 5	Ωm
T_C		≥ 220	°C
density		≈ 4800	kg/m ³

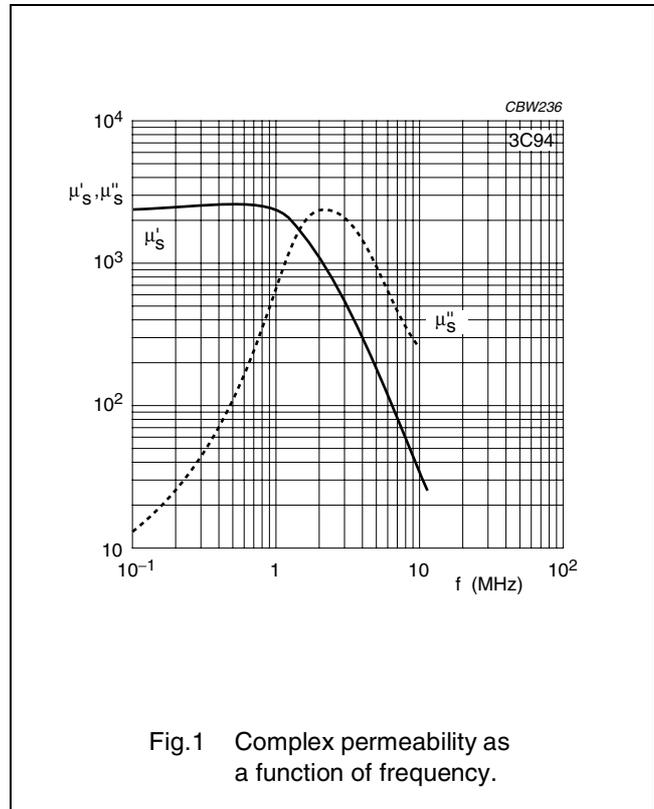


Fig. 1 Complex permeability as a function of frequency.

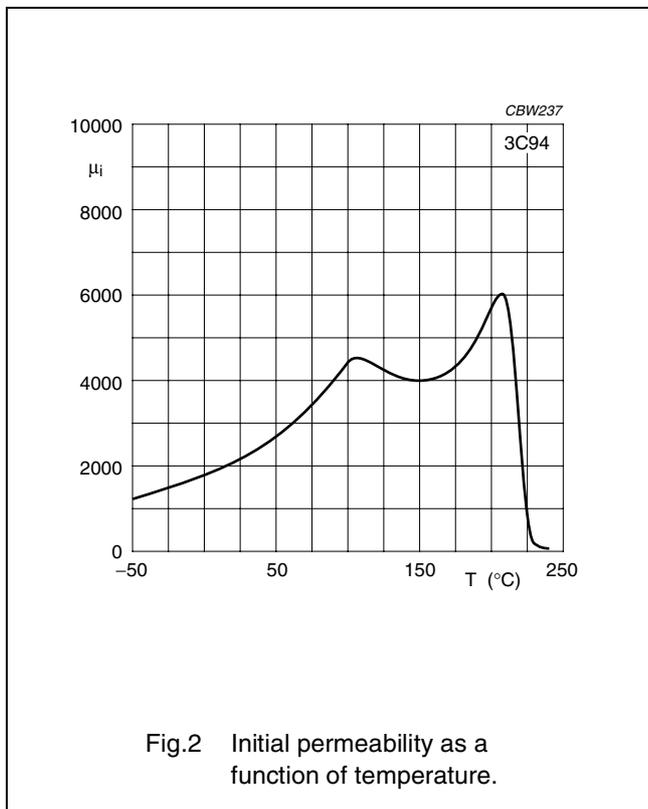


Fig. 2 Initial permeability as a function of temperature.

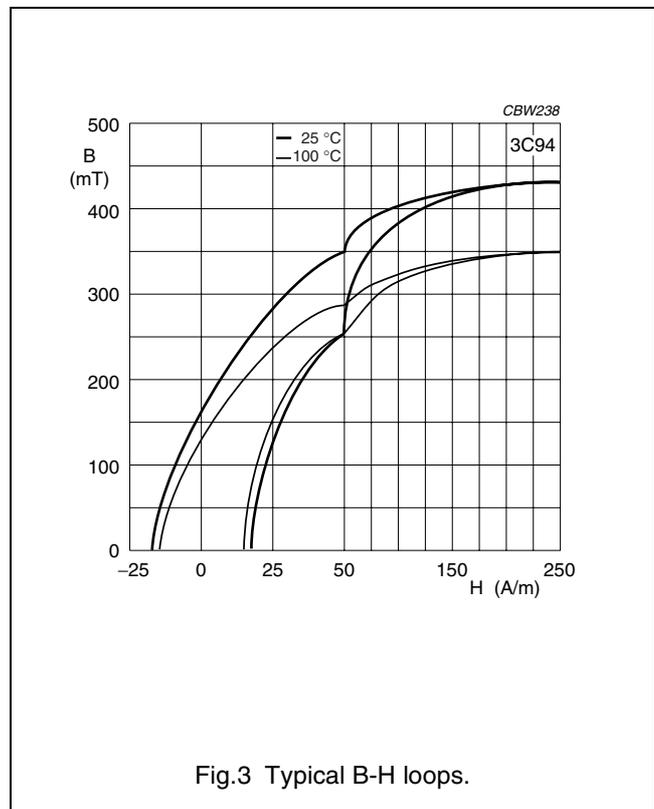
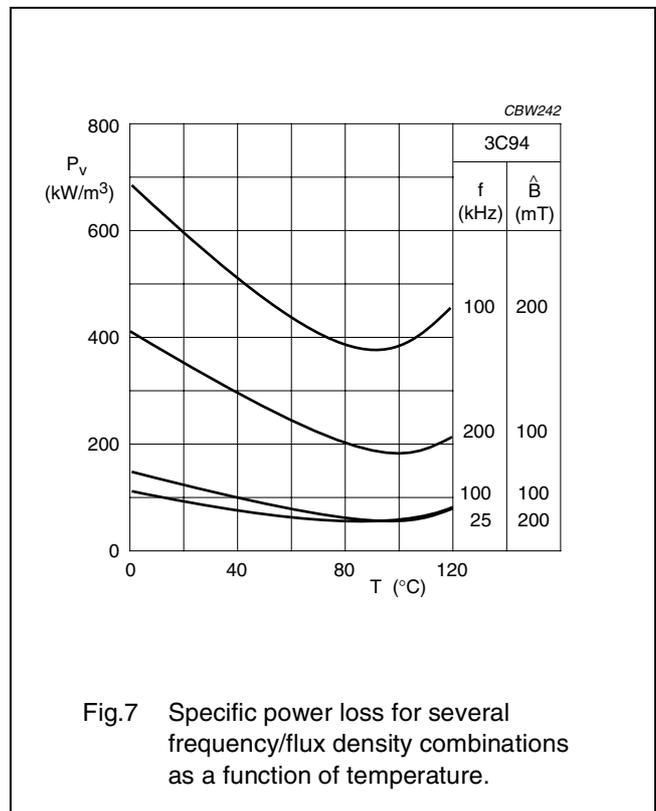
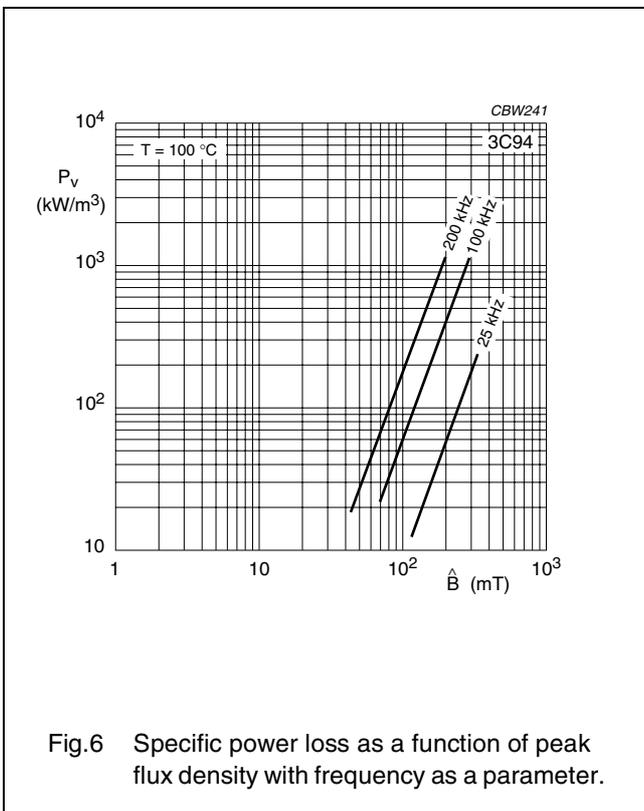
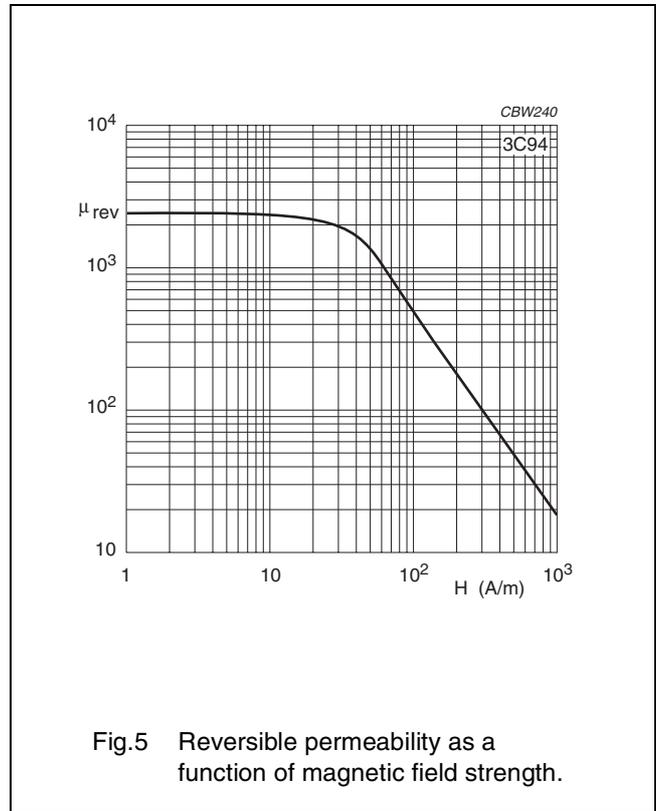
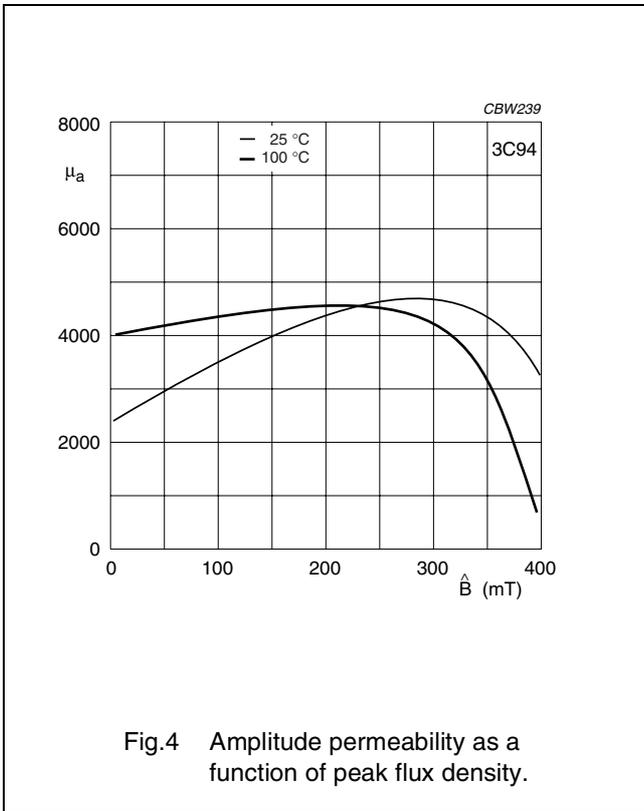


Fig. 3 Typical B-H loops.



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DATA SHEET

3C95 Material specification

Supersedes data of September 2008

2015 October 02

3C95 SPECIFICATIONS

A low to medium frequency power material with low power losses from 25 to 100 °C for use in power transformers at frequencies up to 0.5 MHz. Especially suited for broad temperature range applications like automotive, lighting and mobile / handheld.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	$3000 \pm 20 \%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 5000	
B	25 °C; 10 kHz; 1200 A/m	≈ 530	mT
	100 °C; 10 kHz; 1200 A/m	≈ 410	
P_V	25 °C; 100 kHz; 200 mT	≈ 350	kW/m ³
	100 °C; 100 kHz; 200 mT	≈ 290	
ρ	DC, 25 °C	≈ 5	Ωm
T_C		≥ 215	°C

SYMBOL	CONDITIONS	VALUE	UNIT
α_F	≤ 10 kHz; 0.25 mT; -40 to 25 °C	$1 \pm 2 \times 10^{-6}$	K ⁻¹
	≤ 10 kHz; 0.25 mT; -10 to 55 °C	$1.5 \pm 2 \times 10^{-6}$	K ⁻¹
	≤ 10 kHz; 0.25 mT; 0 to 25 °C	$1.5 \pm 2 \times 10^{-6}$	K ⁻¹
	≤ 10 kHz; 0.25 mT; 25 to 55 °C	$1.5 \pm 2 \times 10^{-6}$	K ⁻¹
	≤ 10 kHz; 0.25 mT; 25 to 55 °C	$1.5 \pm 2 \times 10^{-6}$	K ⁻¹
D_F	25 °C; 10 kHz; 0.25 mT	$\leq 8 \times 10^{-6}$	
density		≈ 4800	kg/m ³

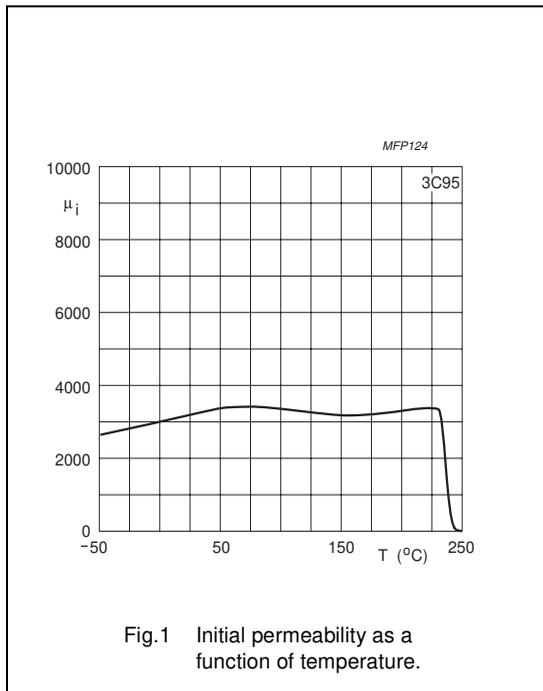


Fig.1 Initial permeability as a function of temperature.

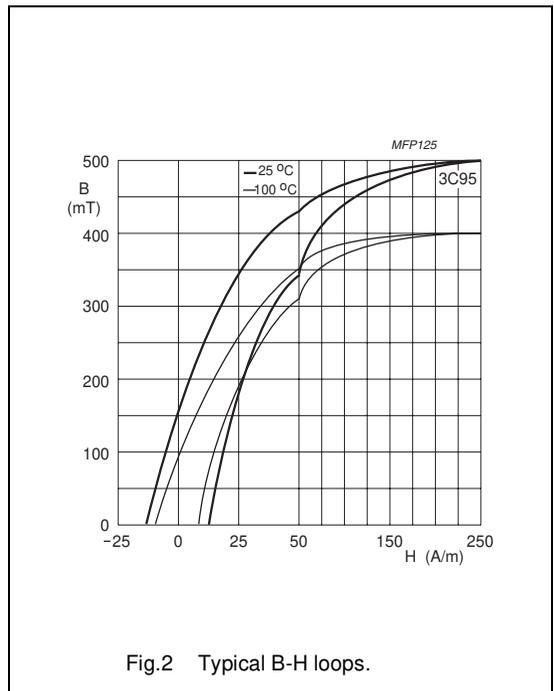
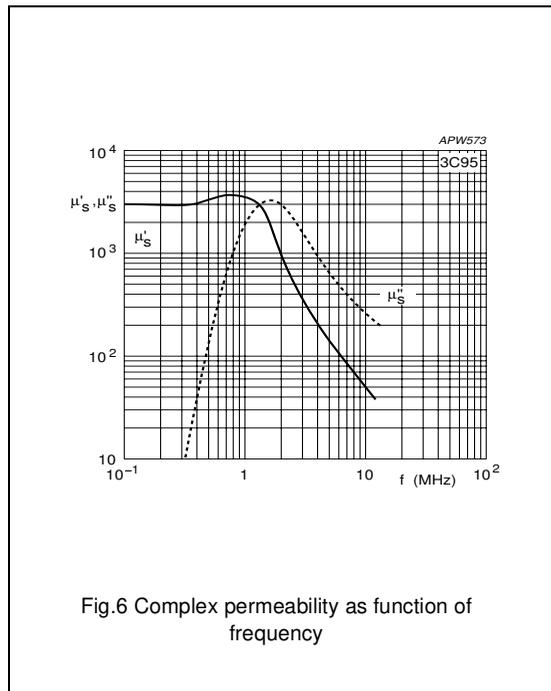
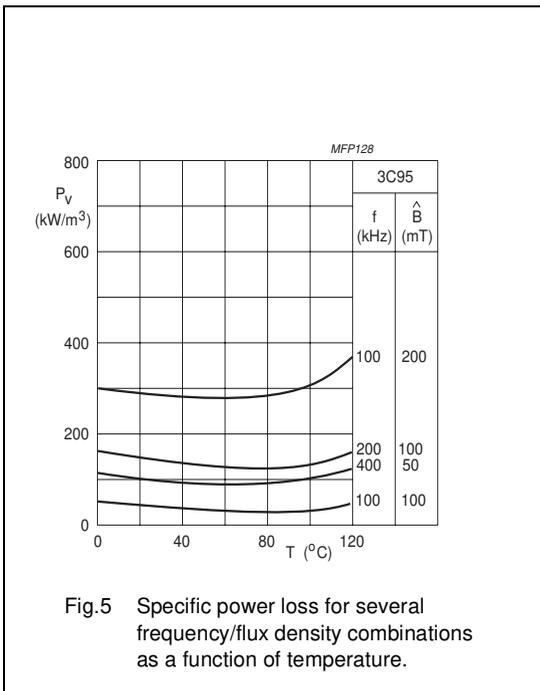
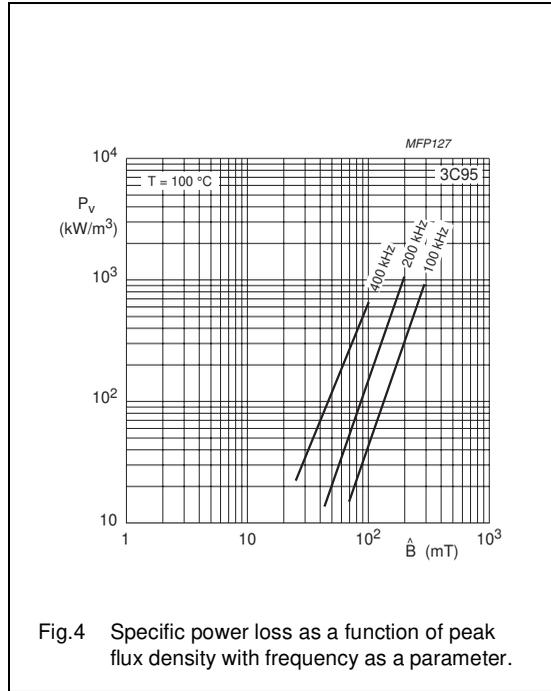
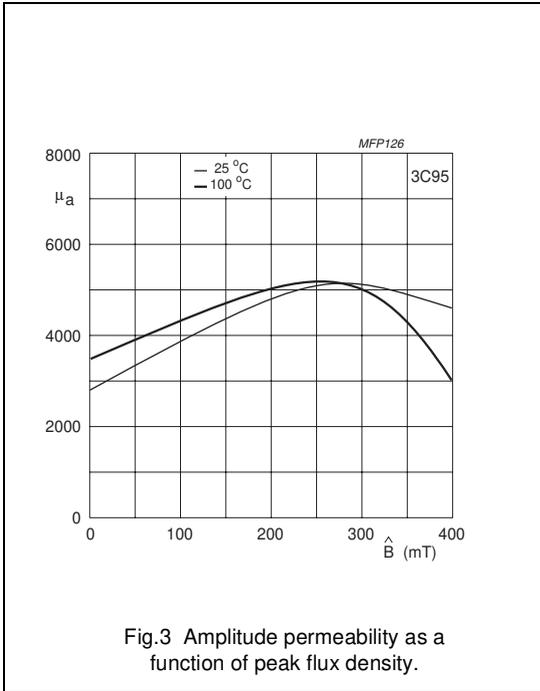


Fig.2 Typical B-H loops.



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DATA SHEET

3C95A

Material specification

2016 February 19

3C95A SPECIFICATION

A low to medium frequency power material with low power losses from 25 to 100 °C for use in power transformers up to 0.5 MHz. Especially suited for broad temperature range applications like automotive, lighting, hand held.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	3300 ± 20%	
μ_a	100°C; 25kHz; 200mT	≈ 5000	
B	25°C; 10kHz; 1200A/m	≈ 550	mT
	100°C; 10kHz; 1200A/m	≈ 430	
Pv	25°C; 100kHz; 200mT	≈ 300	mW/cm ³
	100°C; 100kHz; 200mT	≈ 290	
ρ_{DC}	25°C	≈ 10	Ωm
Tc		≥ 220	°C
density		≈ 4850	kg/m ³

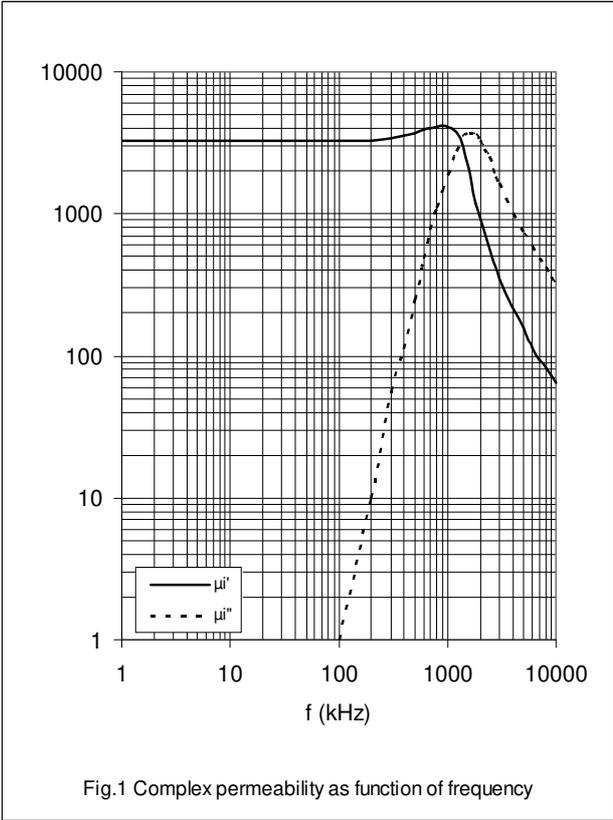


Fig.1 Complex permeability as function of frequency

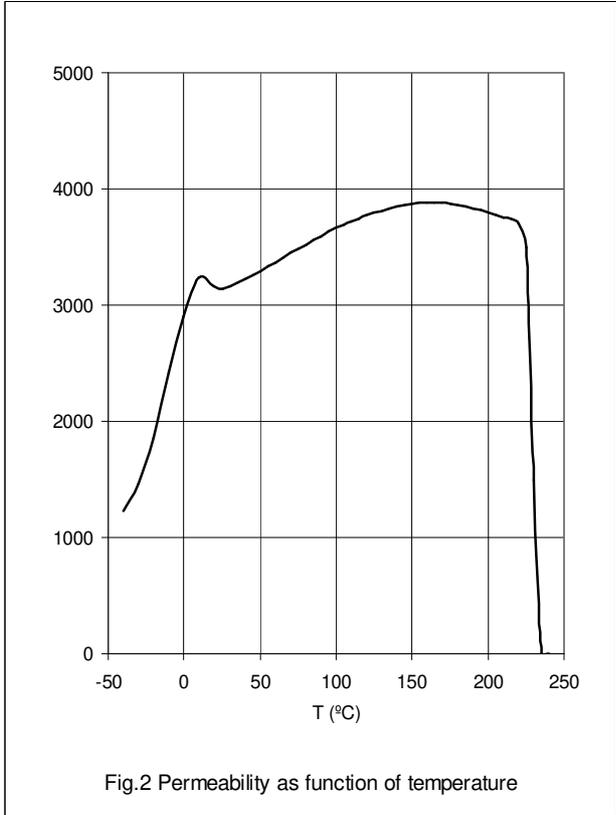


Fig.2 Permeability as function of temperature

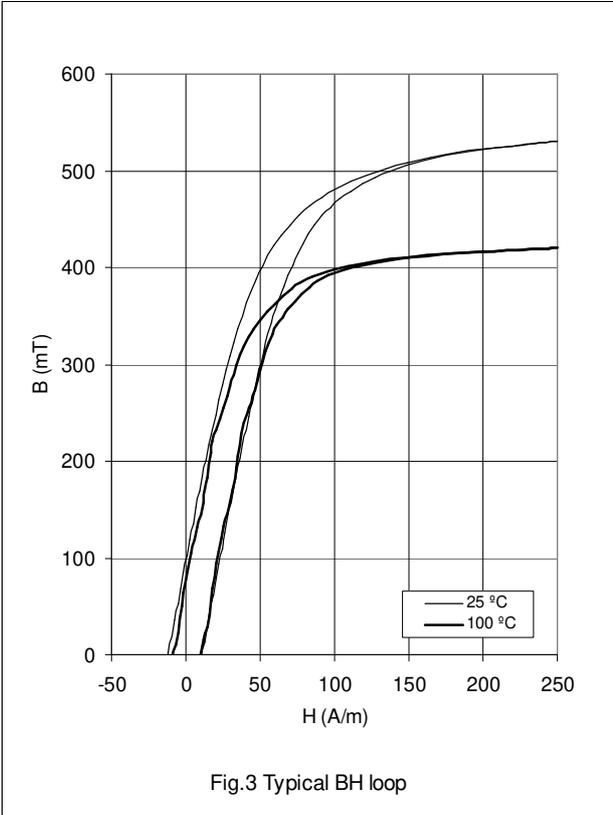
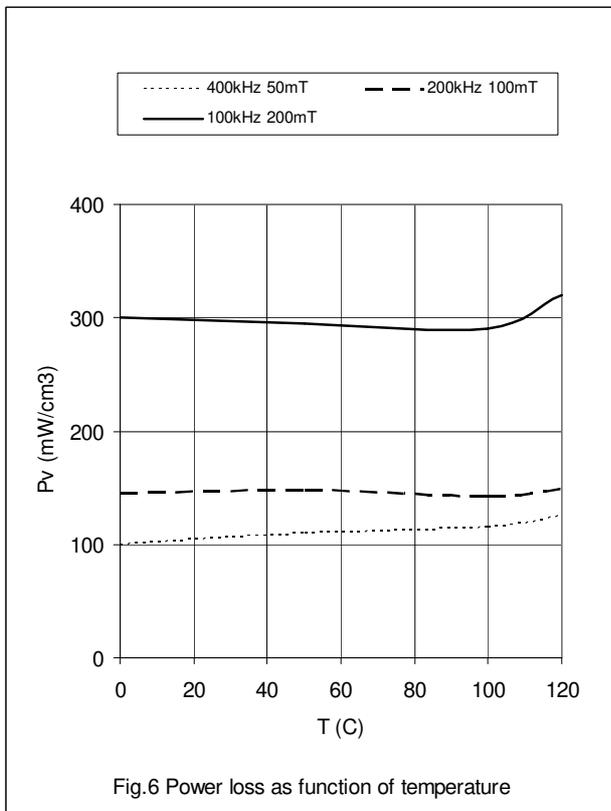
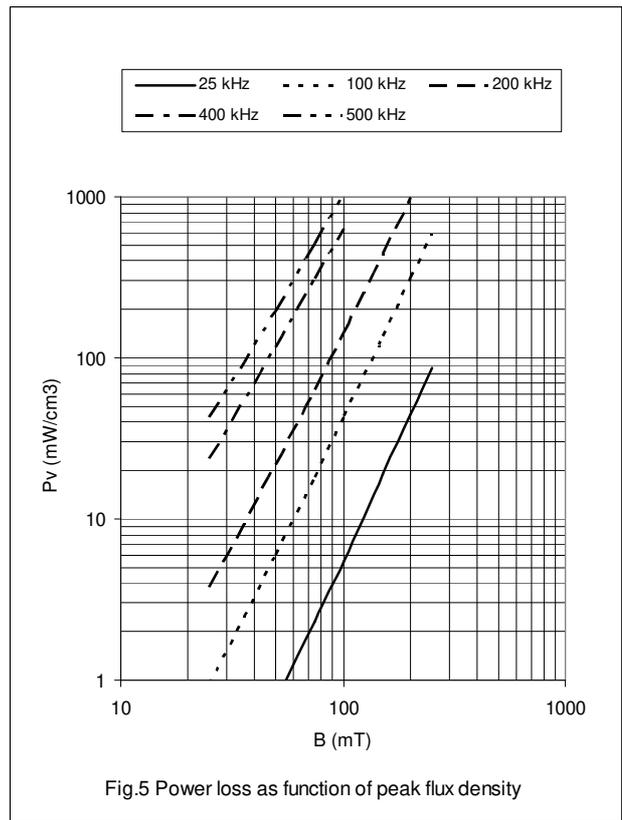
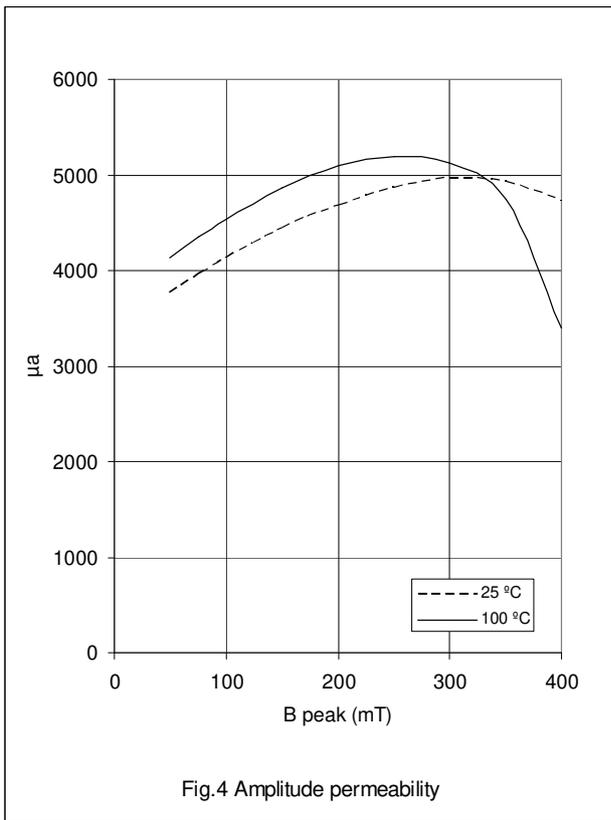


Fig.3 Typical BH loop



DATA SHEET

3C95F

Material specification

2017 January 18th

3C95F SPECIFICATION

A medium frequency power material optimized for 200-400kHz power conversion, with flat losses in 25-100°C.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	3000 ± 25%	
μ_a	100°C; 25kHz; 200mT	≈ 4500	
B	25°C; 10kHz; 1200A/m	≈ 550	mT
	100°C; 10kHz; 1200A/m	≈ 430	
Pv	25°C; 200kHz; 125mT	≈ 220	k W / m ³
	60°C; 200kHz; 125mT	≈ 240	
	80°C; 200kHz; 125mT	≈ 240	
	100°C; 200kHz; 125mT	≈ 250	
Pv	25°C; 300kHz; 100mT	≈ 220	k W / m ³
	60°C; 300kHz; 100mT	≈ 260	
	80°C; 300kHz; 100mT	≈ 260	
	100°C; 300kHz; 100mT	≈ 270	
ρ_{DC}	25°C	≈ 10	Ωm
Tc		≥ 210	°C
density		≈ 4850	k g / m ³

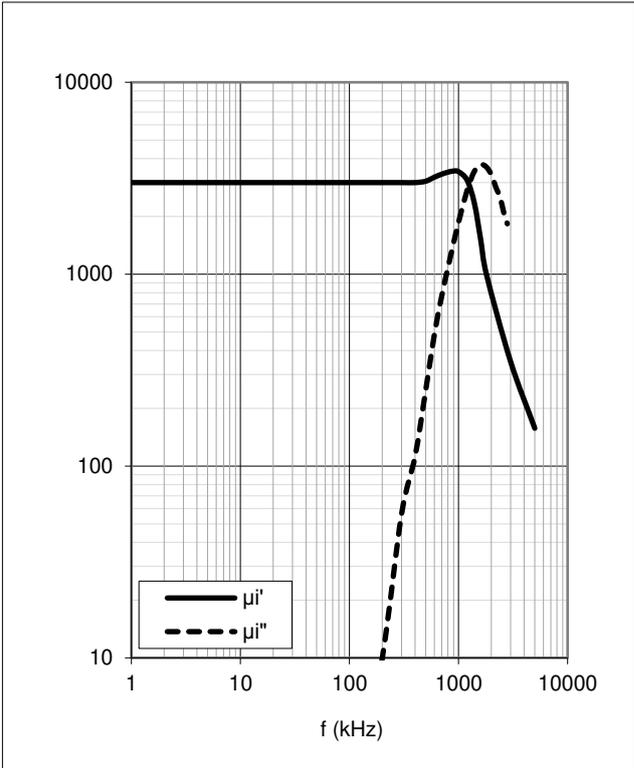


Fig.1 Complex permeability as function of frequency

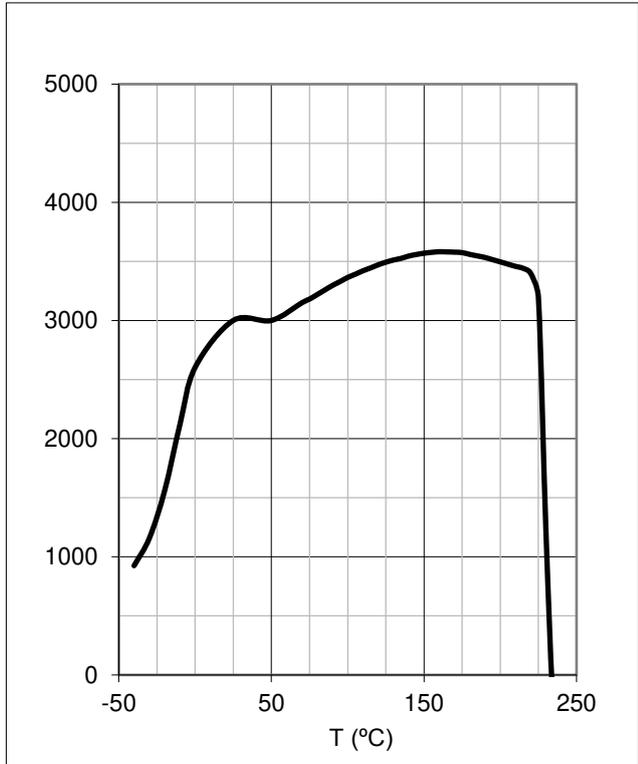


Fig.2 Permeability as function of temperature

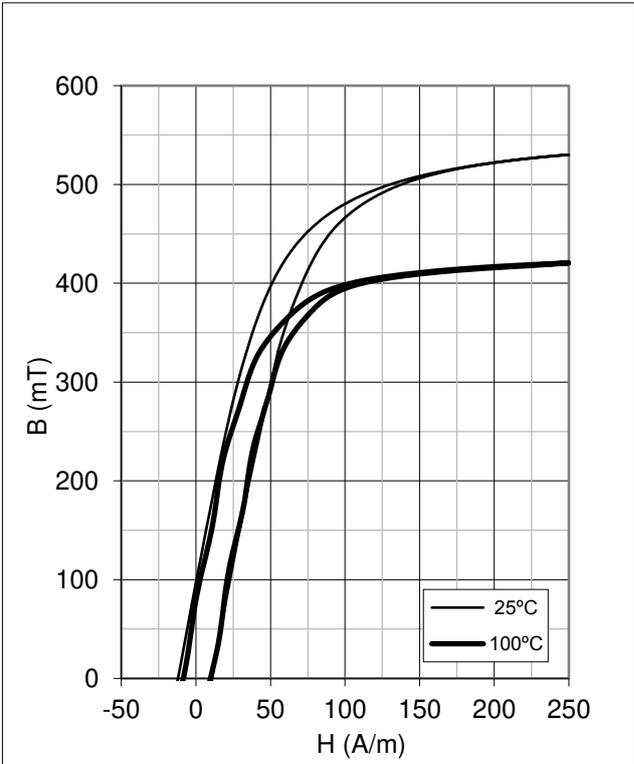
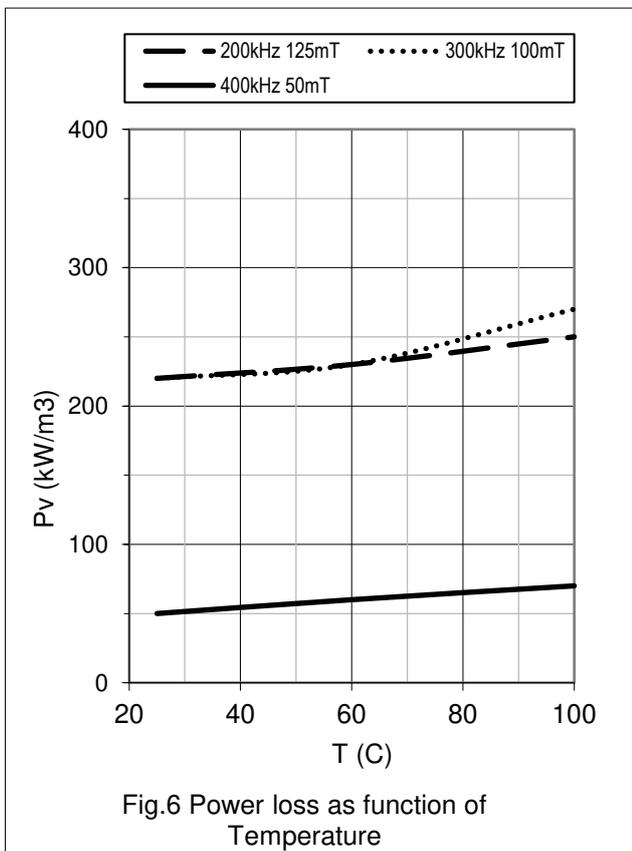
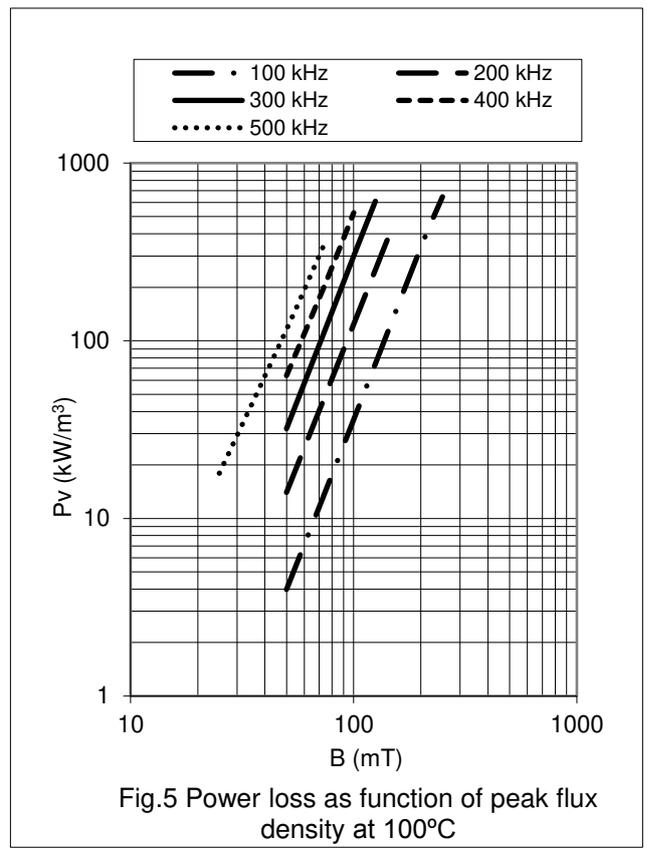
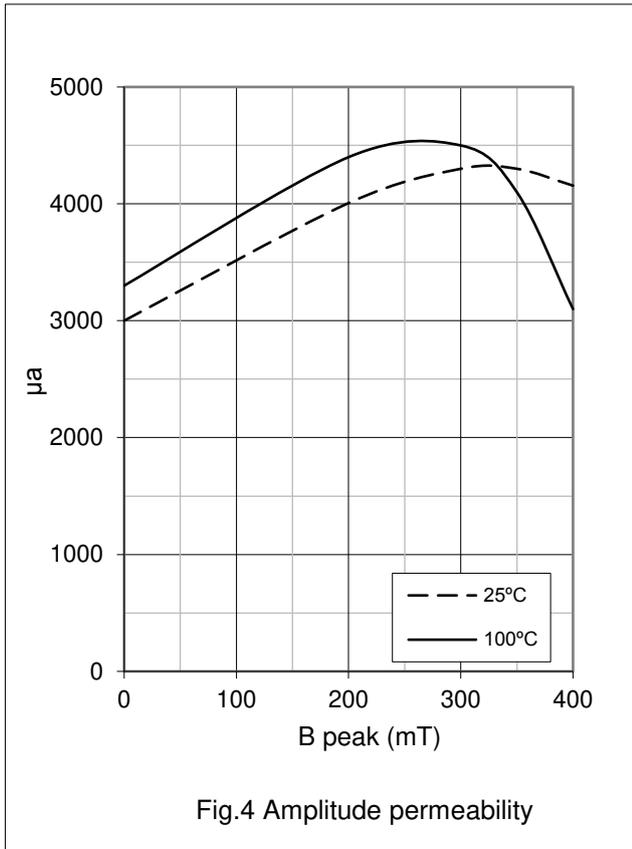


Fig.3 Typical BH loop



DATA SHEET

3C96 Material specification

Supersedes data of September 2004

2008 Sep 01

Material specification

3C96

3C96 SPECIFICATIONS

A low to medium frequency power material for use in power and general purpose transformers at frequencies up to 0.4 MHz.

	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	2000 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 5500	
B	25 °C; 10 kHz; 1200 A/m	≈ 500	mT
	100 °C; 10 kHz; 1200 A/m	≈ 440	
P_V	100 °C; 100 kHz; 100 mT	≈ 40	kW/m ³
	100 °C; 100 kHz; 200 mT	≈ 300	
	100 °C; 500 kHz; 50 mT	≈ 250	
ρ	DC; 25 °C	≈ 5	Ωm
T_C		≥ 240	°C
density		≈ 4800	kg/m ³

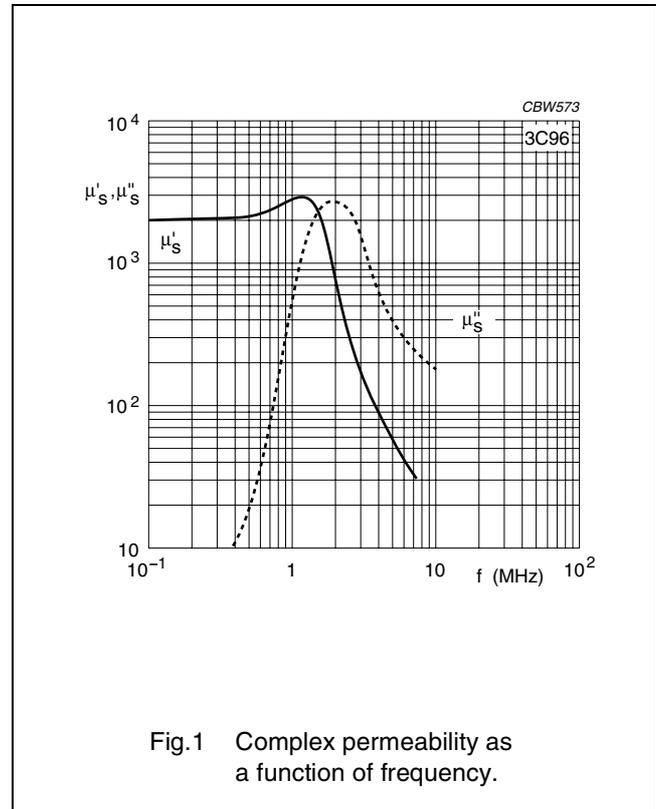


Fig.1 Complex permeability as a function of frequency.

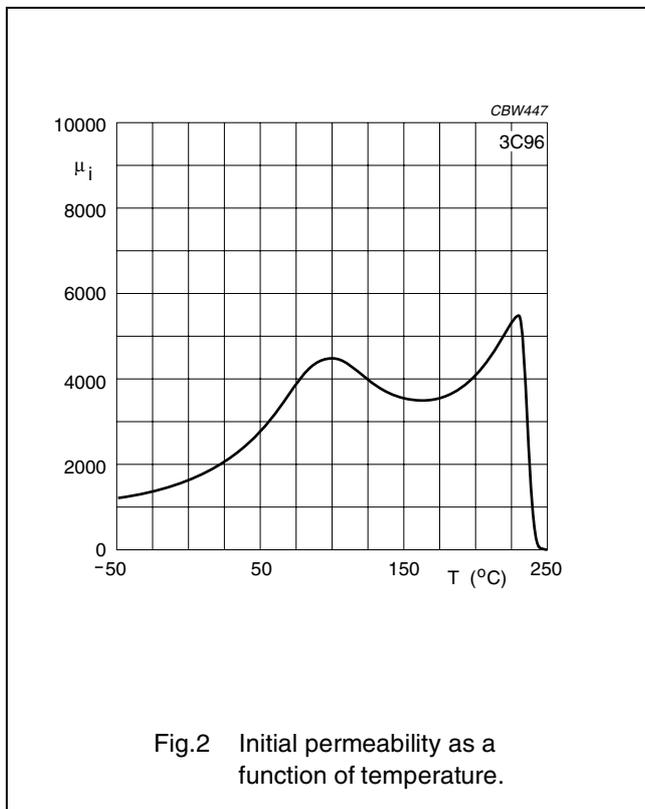


Fig.2 Initial permeability as a function of temperature.

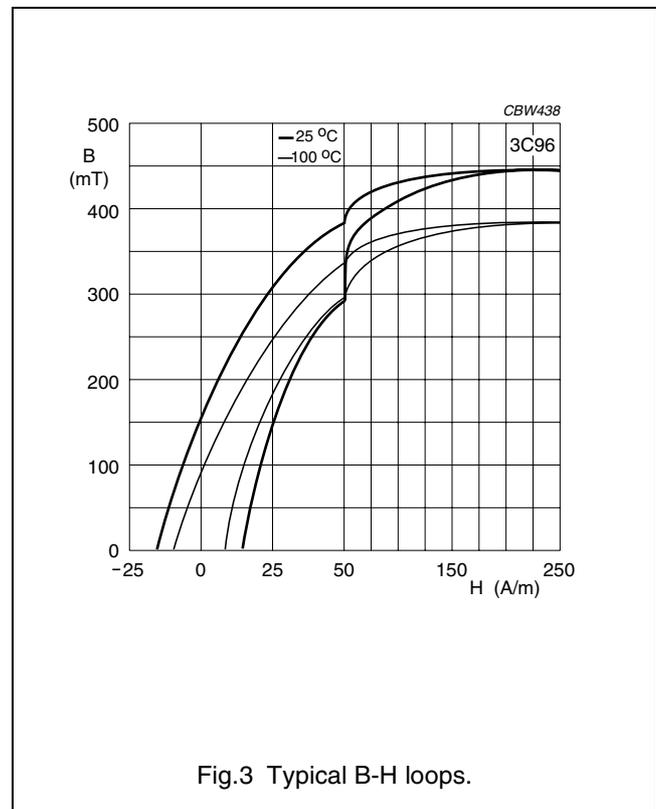
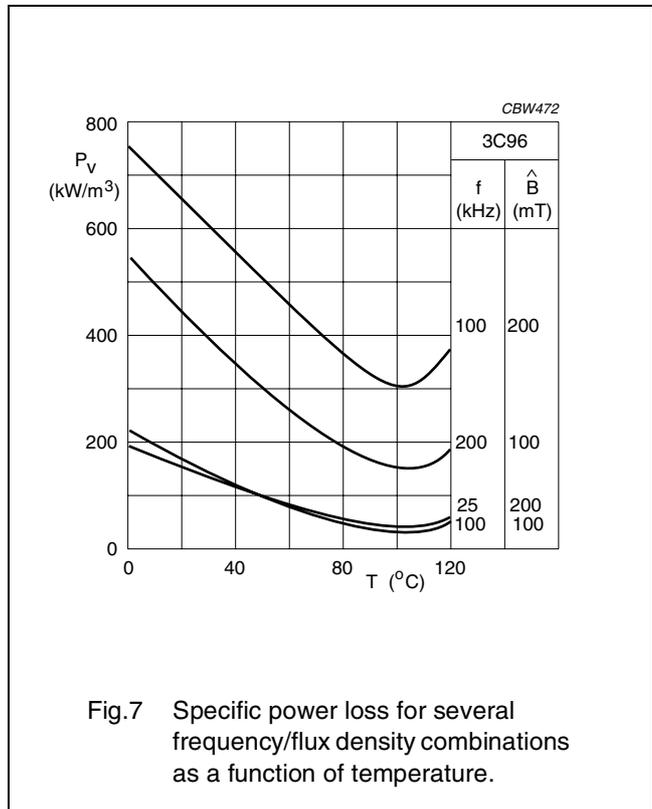
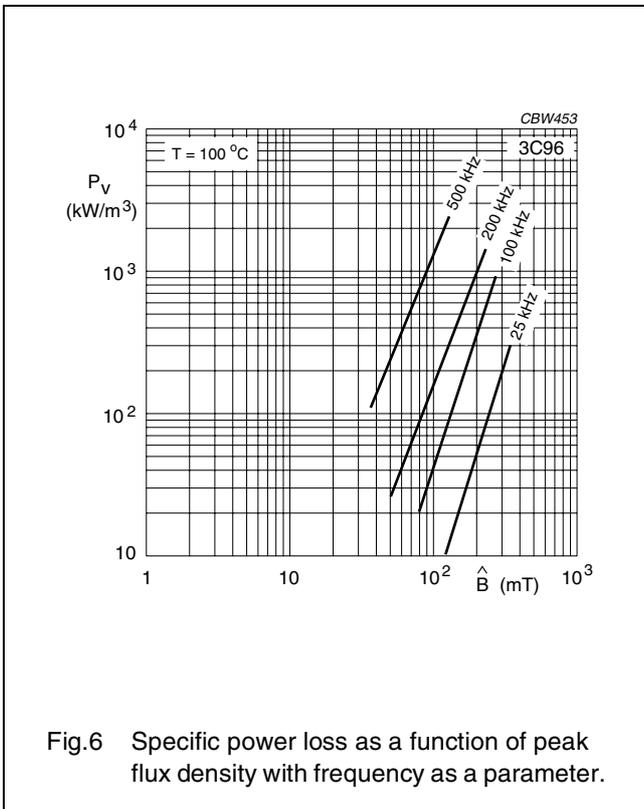
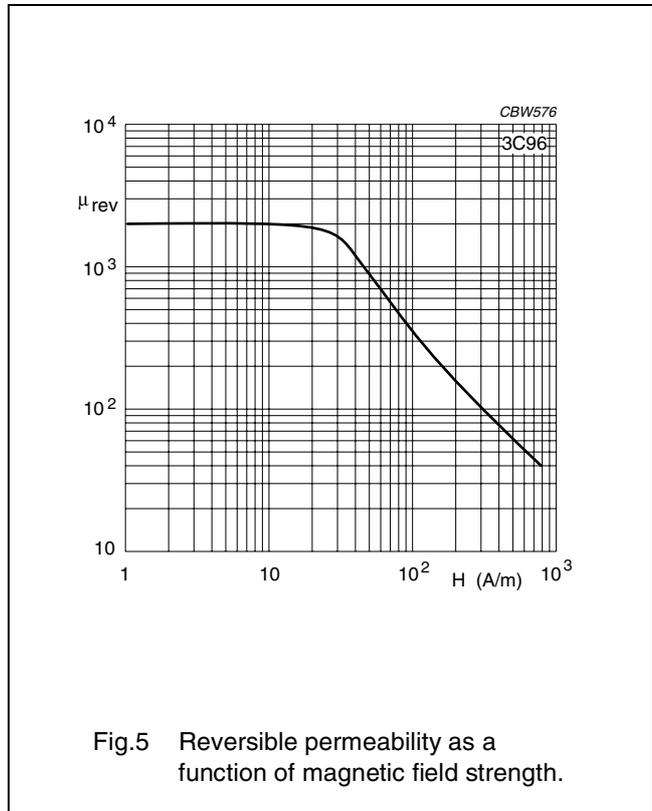
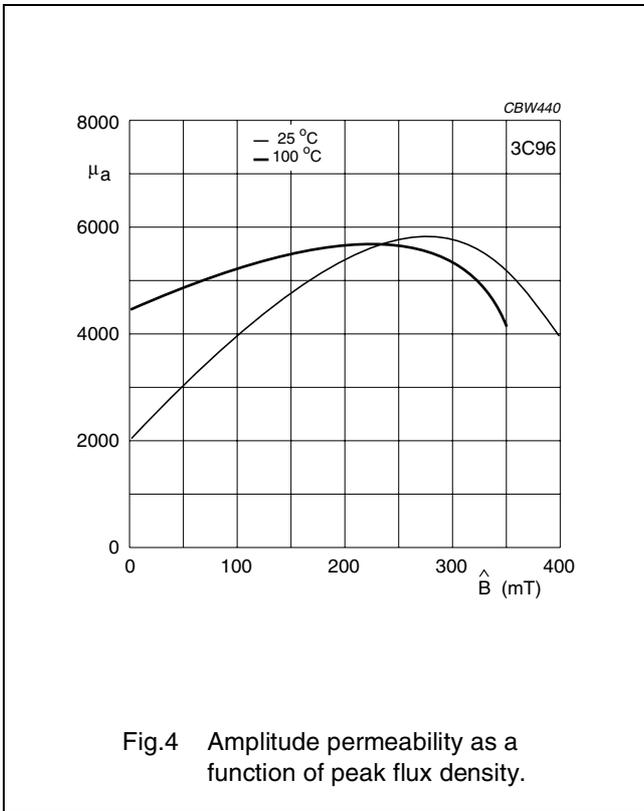


Fig.3 Typical B-H loops.



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Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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Design-in		These products are recommended for new designs.
Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support		These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.

DATA SHEET

3C97

Material specification

Supersedes data of June 2013

2018 August 09th

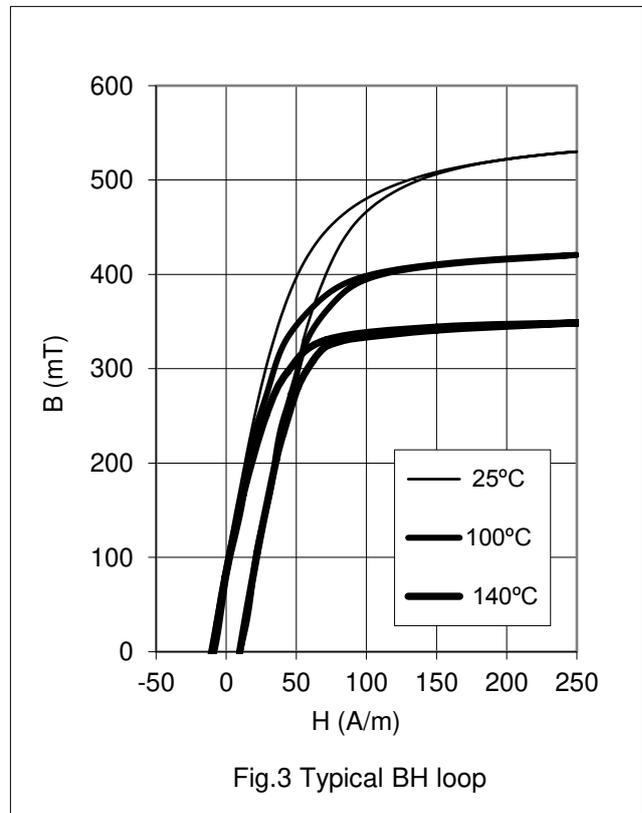
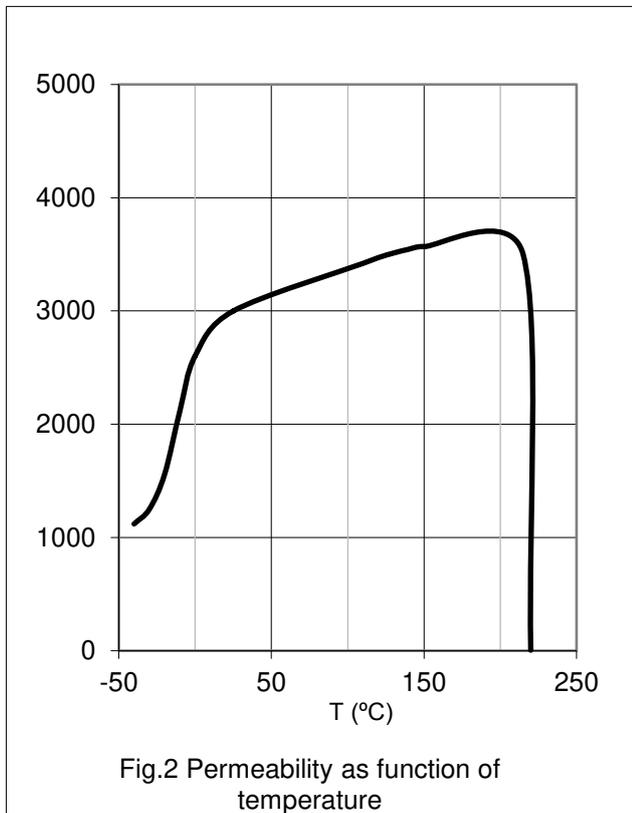
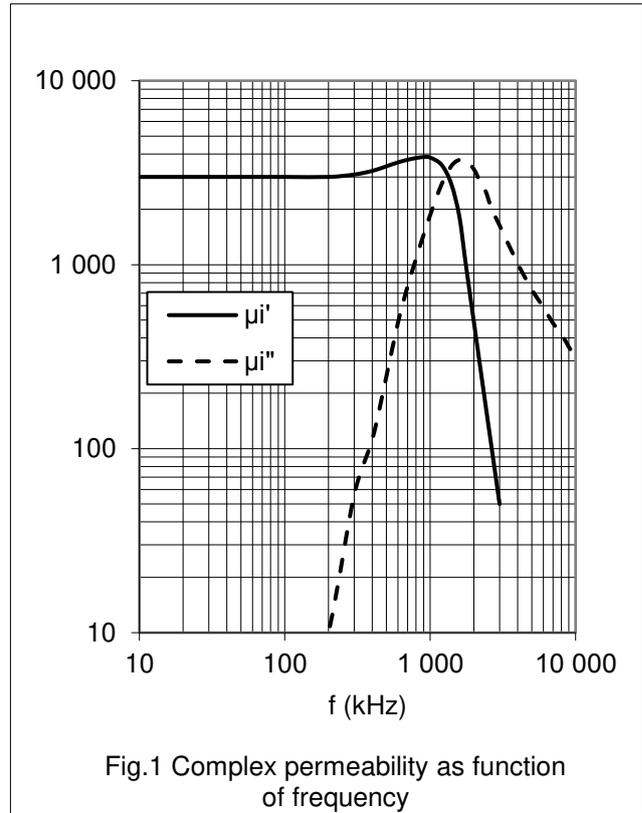


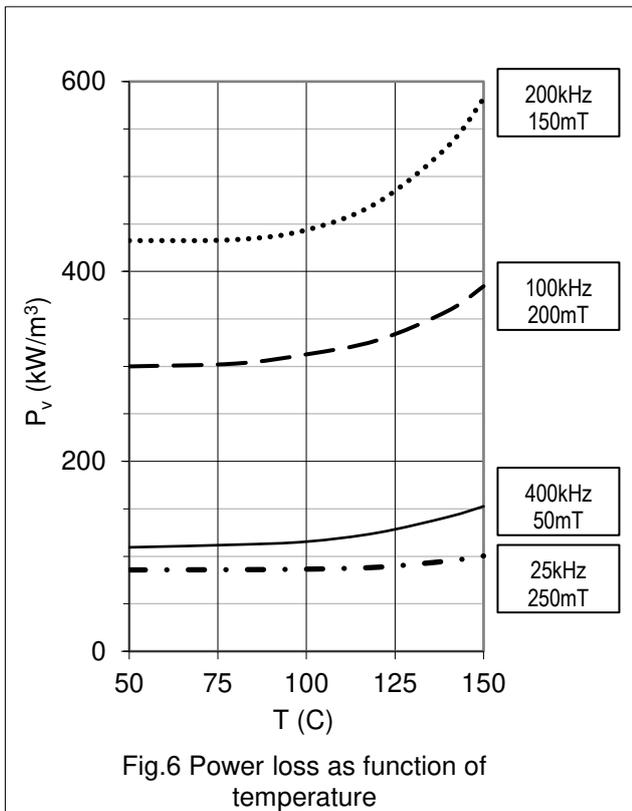
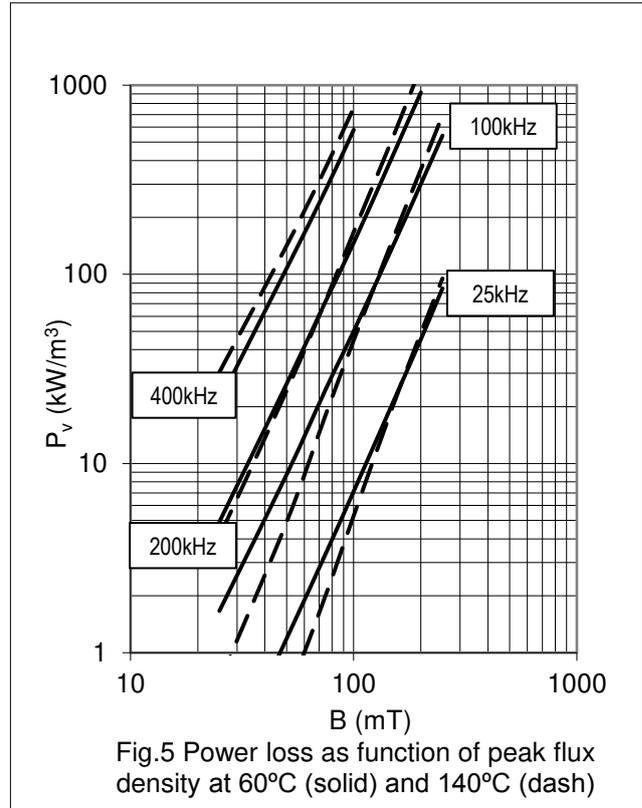
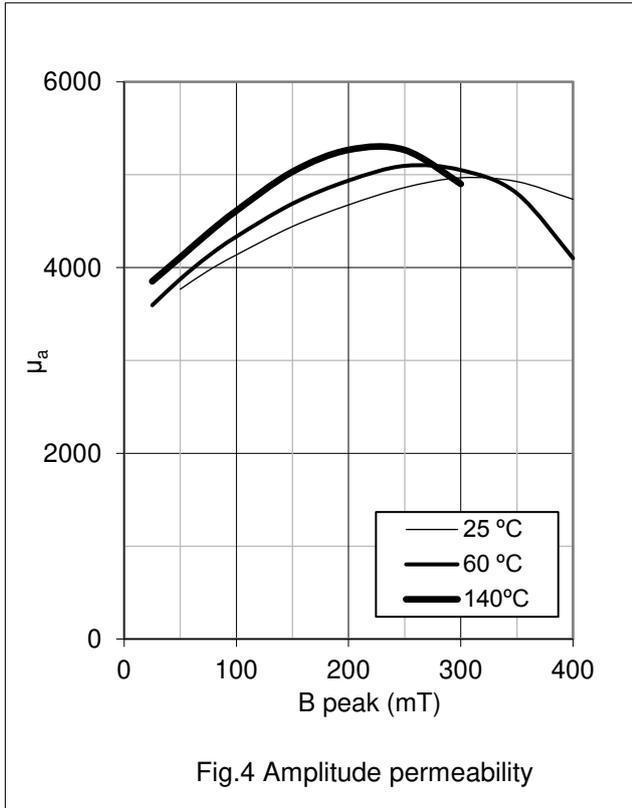
3C97 SPECIFICATION

A low to medium frequency power material with low power losses from 50 to 150 °C. For use in power and general purpose transformers at frequencies up to 0.5MHz. Material should not be exposed to temperatures exceeding 150°C for long time.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	3000 ± 25%	
μ_a	25°C; 25kHz; 200mT	≈ 5000	
B	25°C; 10kHz; 1200A/m	≈ 550	mT
	100°C; 10kHz; 1200A/m	≈ 430	
	140°C; 10kHz; 1200A/m	≈ 360	
Pv	60°C; 100kHz; 200mT	≈ 320	kW / m ³
	140°C; 100kHz; 200mT	≈ 380	
ρ_{DC}	25°C	≈ 10	Ωm
Tc		≥ 215	°C
density		≈ 4850	kg / m ³

Typical performance of unstressed ring T25/15/12





DATA SHEET

3C98

Material specification

2013 Jun 03

3C98 SPECIFICATIONS

A low to medium frequency power material for use in power and general purpose transformers at frequencies up to 0.4 MHz.

	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	2500 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 5500	
B	25 °C; 10 kHz; 1200 A/m	≈ 530	mT
	100 °C; 10 kHz; 1200 A/m	≈ 440	
P _V	25 °C; 100 kHz; 200 mT	≈ 500	kW/m ³
	60 °C; 100 kHz; 200 mT	≈ 350	
	100 °C; 100 kHz; 200 mT	≈ 250	
ρ	DC; 25 °C	≈ 8	Ωm
T _C		≥ 230	°C
density		≈ 4850	kg/m ³

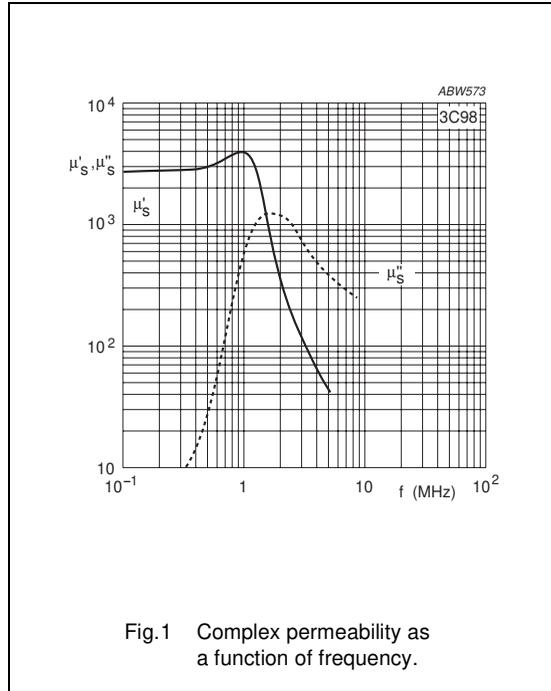


Fig. 1 Complex permeability as a function of frequency.

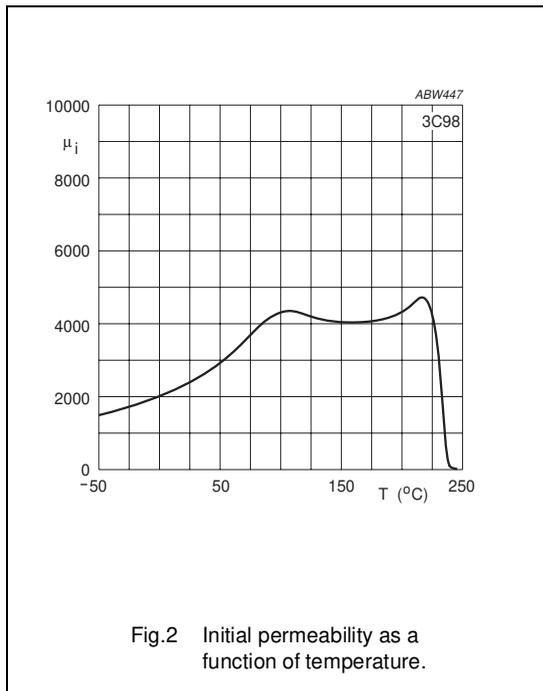


Fig. 2 Initial permeability as a function of temperature.

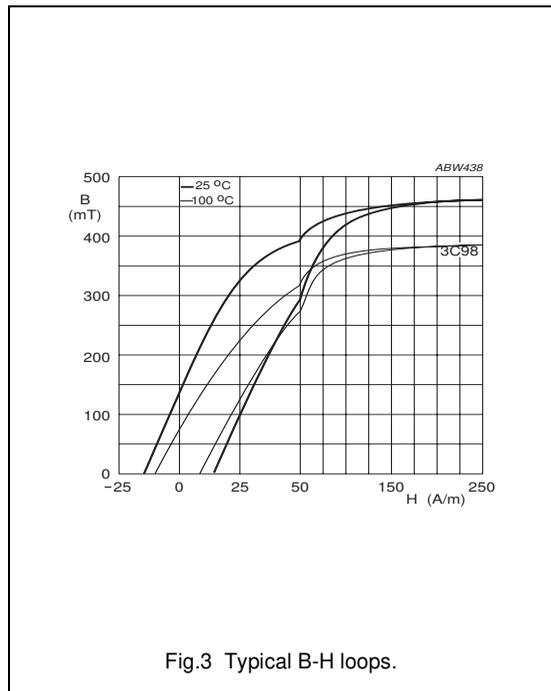
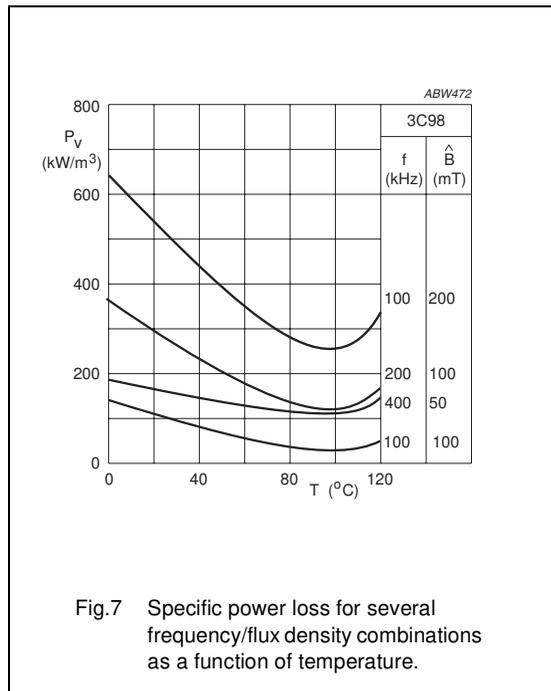
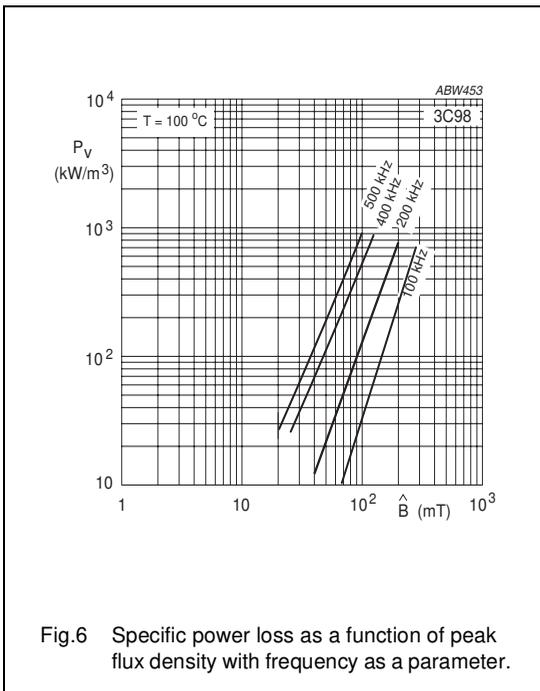
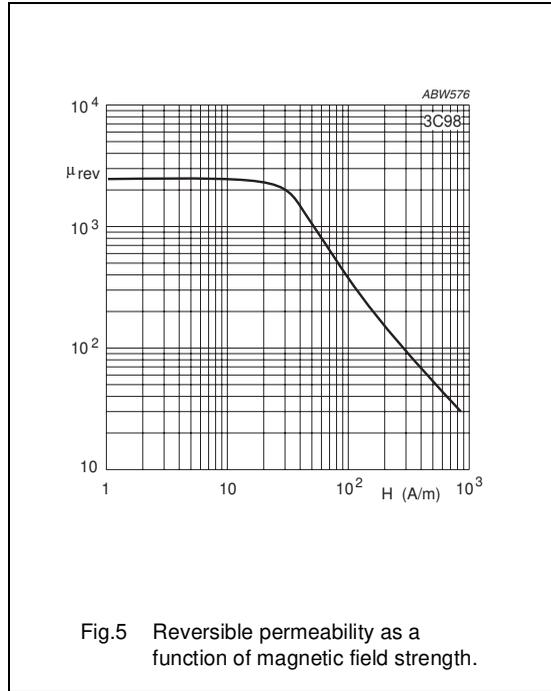
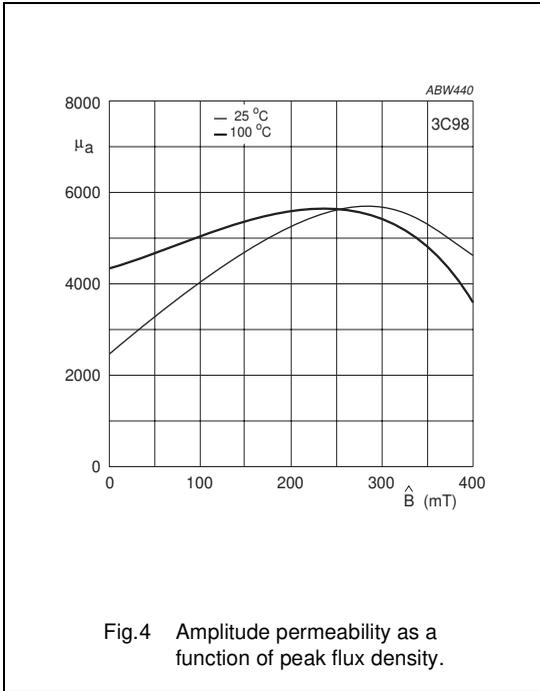


Fig. 3 Typical B-H loops.



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3C99 – High temperature material for power conversion

NEW

Optimized for 200°C working temperature

Low-to-medium frequency (100-400 kHz)

3C99 SPECIFICATION

A medium frequency power material with high Curie temperature, optimized for 200°C working temperature.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	800 ± 20%	
μ_a	200°C; 10kHz; 200mT	≈ 4000	
B	25°C; 10kHz; 1200A/m	≈ 500	mT
	100°C; 10kHz; 1200A/m	≈ 450	
	200°C; 10kHz; 1200A/m	≈ 320	
P _v	200°C; 25kHz; 200mT	≈ 140	kW / m ³
	200°C; 100kHz; 100mT	≈ 140	
	200°C; 400kHz; 50mT	≈ 220	
ρ_{DC}	25°C	≈ 6	Ωm
T _c		≥ 300	°C
density		≈ 4800	kg / m ³

