



PRODUKTINFORMATION

Vi reserverar oss mot fel samt förbehåller oss rätten till ändringar utan föregående meddelande

ELFA artikelnr

58-745-08 Ferritstav 3x15mm 4B1

58-745-16 Ferritstav 5x30mm 4B1

58-745-32 Ferritstav 8x150mm 4B1

58-746-72 Ferritstav 10x200mm 4B1

DATA SHEET

Rods EMI-suppression products

Supersedes data of November 2000

2002 Feb 01

RODS

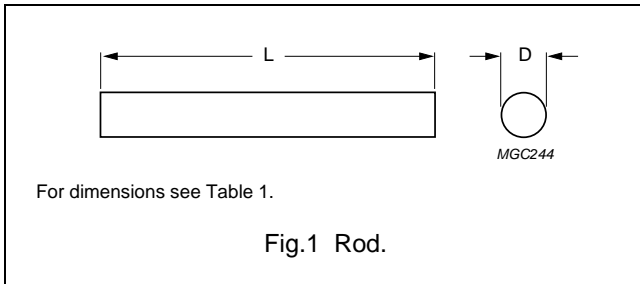


Table 1 Grades, parameters and type numbers; see Fig.1

DIMENSIONS (mm)		TYPE NUMBER		
D	L	3B1	3S3	4B1
1.6 +0.05	9 ±0.2	ROD1.6/9-3B1-D	–	ROD1.6/9-4B1-D
2 –0.05	20 –0.9	ROD2/20-3B1-D	–	ROD2/20-4B1-D
3 –0.05	15 –0.8	ROD3/15-3B1-D	–	ROD3/15-4B1-D
3 –0.3	20 ±0.4	–	ROD3/20-3S3	–
3 –0.05	20 –0.9	ROD3/20-3B1-D	–	ROD3/20-4B1-D
3 –0.05	25 –1.0	ROD3/25-3B1-D	–	ROD3/25-4B1-D
3.3 ±0.10	17 ±0.3	–	ROD3.3/17-3S3	–
4 –0.05	15 –0.8	ROD4/15-3B1-D	–	ROD4/15-4B1-D
4 –0.05	20 –0.9	ROD4/20-3B1-D	–	ROD4/20-4B1-D
4 –0.05	25 –1.0	ROD4/25-3B1-D	–	ROD4/25-4B1-D
5 –0.30	20 ±0.5	–	ROD5/20-3S3	ROD5/20-4B1
5 –0.05	20 –0.9	ROD5/20-3B1-D	–	ROD5/20-4B1-D
5 –0.30	25 –1.0	–	ROD5/25-3S3	–
5 –0.05	25 –1.0	ROD5/25-3B1-D	–	ROD5/25-4B1-D
5 –0.05	30 –1.2	ROD5/30-3B1-D	–	ROD5/30-4B1-D
5.25 –0.3	18 ±0.3	–	ROD5.3/18-3S3	–
6 –0.30	25 ±0.6	–	ROD6/25-3S3	–
6 –0.30	30 ±0.9	–	ROD6/30-3S3	–
6 –0.10	30 –1.2	ROD6/30-3B1-D	–	ROD6/30-4B1-D
6 –0.10	40 –1.6	ROD6/40-3B1-D	–	ROD6/40-4B1-D
6 –0.10	50 ±1.0	ROD6/50-3B1-D	–	ROD6/50-4B1-D
6.5 –0.30	25 ±0.6	–	ROD6.5/25-3S3	ROD6.5/25-4B1
8 –0.5	25 ±0.75	–	ROD8/25-3S3	–
8 –0.5	32 –2	–	ROD8/32-3S3	ROD8/32-4B1
8 –0.40	50 ±1.0	ROD8/50-3B1	–	ROD8/50-4B1
8 –0.40	150 ±3	ROD8/150-3B1	–	ROD8/150-4B1
8 –0.40	200 ±4	ROD8/200-3B1	–	ROD8/200-4B1
10 –0.50	200 ±4	ROD10/200-3B1	–	ROD10/200-4B1




DATA SHEET STATUS DEFINITIONS

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Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
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.

DISCLAIMER

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION
Prototype		These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
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

4B1 Material specification

Supersedes data of November 2000

2002 Feb 01

Material specification

4B1

4B1 SPECIFICATIONS

Medium permeability NiZn ferrite for use in wideband EMI-suppression (30 - 1000 MHz) as well as RF tuning, wideband and balun transformers.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.1 mT	$250 \pm 20\%$	
B	25 °C; 10 kHz; 250 A/m 100 °C; 10 kHz; 250 A/m	≈ 310 ≈ 260	mT
$\tan\delta/\mu_i$	25 °C; 1 MHz; 0.1 mT 25 °C; 3 MHz; 0.1 mT	$\leq 90 \times 10^{-6}$ $\leq 300 \times 10^{-6}$	
ρ	DC; 25 °C	$\approx 10^5$	Ωm
T_C		≥ 250	°C
density		≈ 4600	kg/m ³

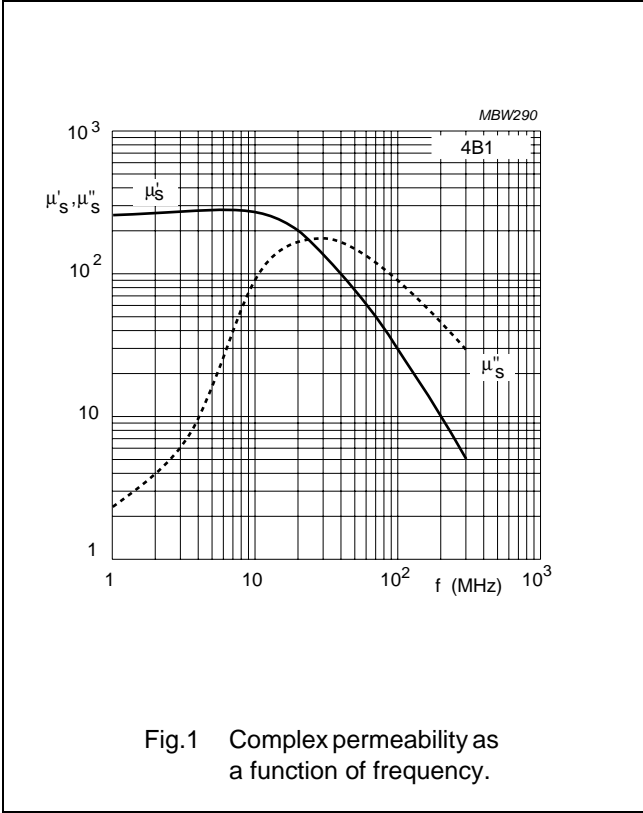


Fig.1 Complex permeability as a function of frequency.

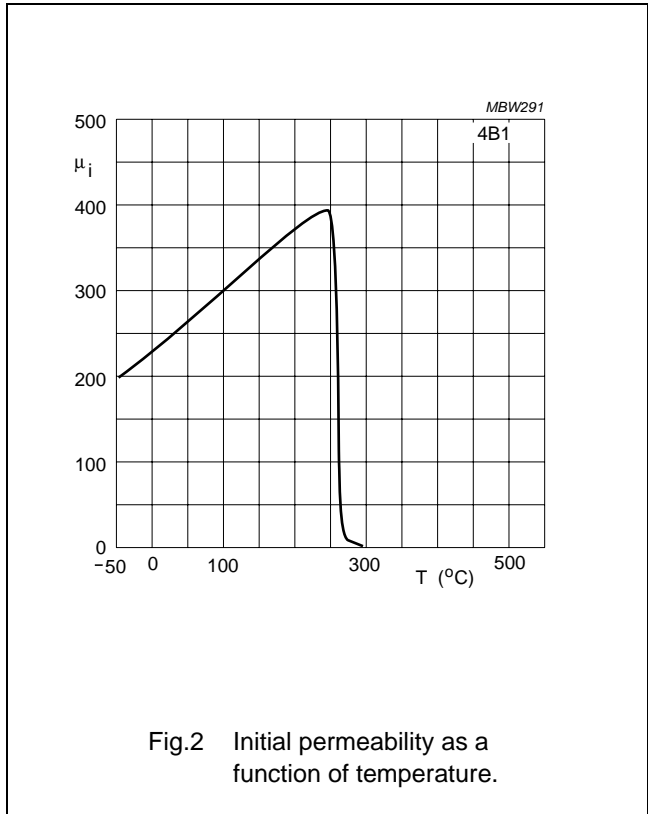


Fig.2 Initial permeability as a function of temperature.

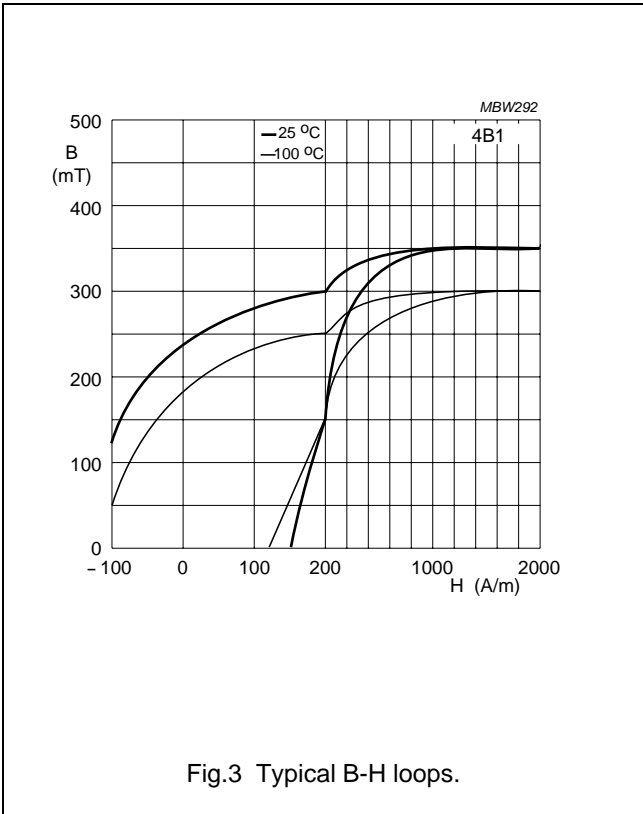


Fig.3 Typical B-H loops.




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