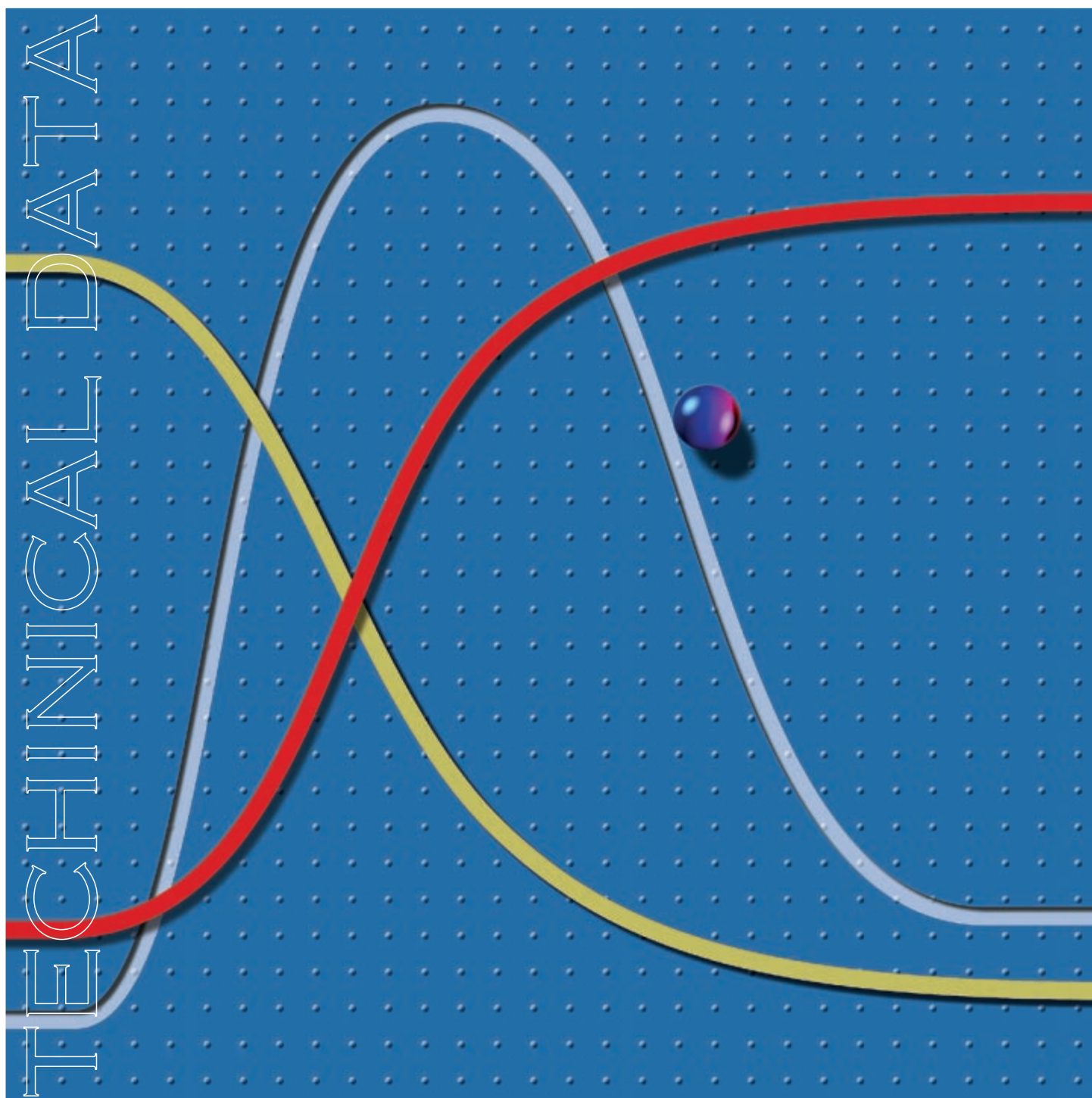




JFE

JFE Super Cores Magnetic Property Curves

JNEX-CORE JNHF-CORE



JFE Steel Corporation

Magnetic property curves

Typical magnetic property curves for each grade of JFE Super Cores are shown on the pages listed in the tables below.

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4	High-Frequency Core Loss Curves
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42	D.C. Hysteresis Loops

Unit Conversion tables

Magnetizing Force

	Oersted	A/m	A/in
Oersted	1	7.96×10	2.02
A/m	1.256×10^{-2}	1	2.54×10^{-2}
A/in	4.95×10^{-1}	3.94×10	1

Core Loss

	w/kg	w/lb
w/kg	1	4.54×10^{-1}
w/lb	2.204	1

Magnetic Flux Density

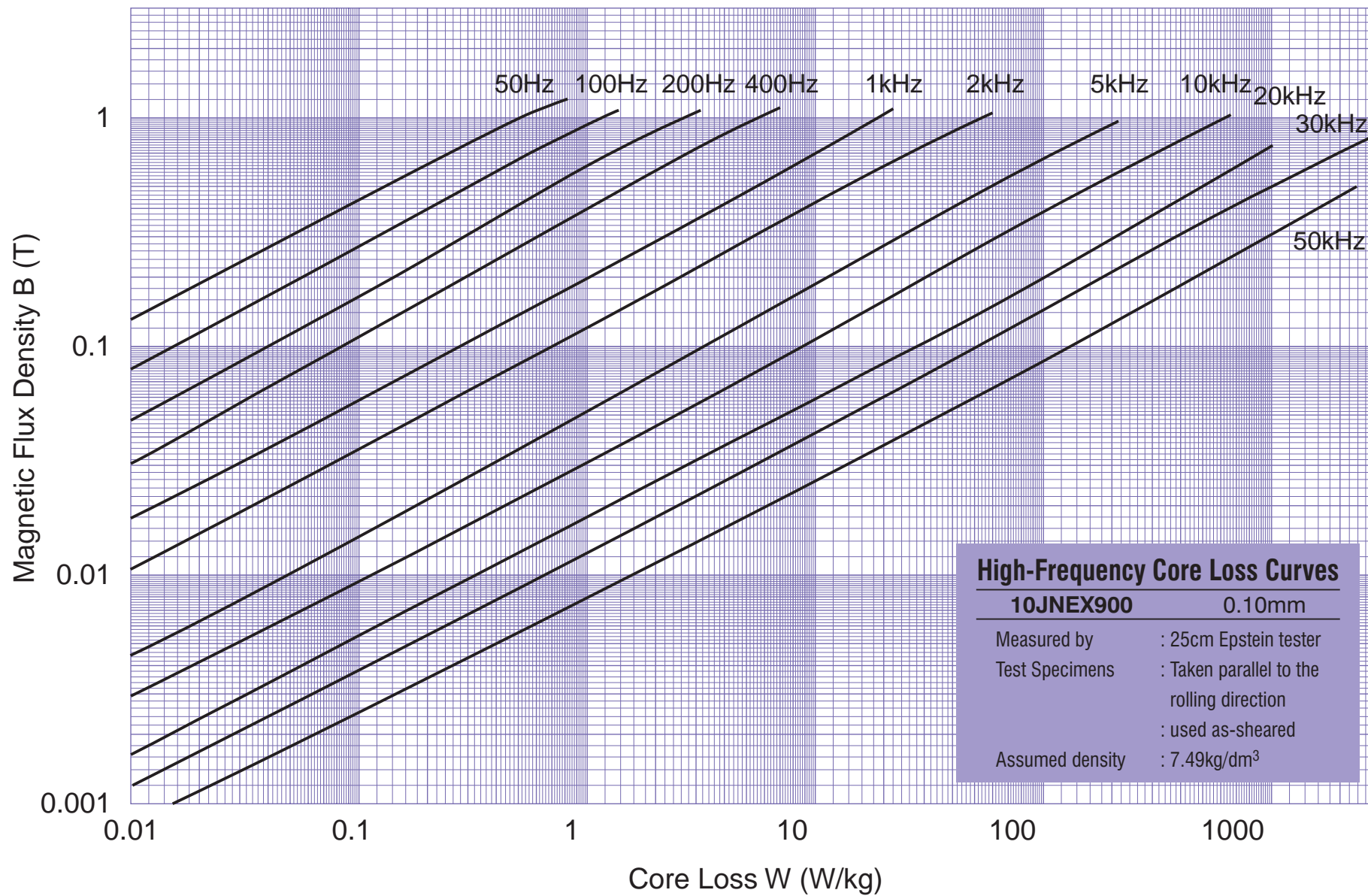
	Gauss	Tesla	Line/in ²	Wb/m ²
Gauss	1	10^{-4}	6.45	10^{-4}
Tesla	10^4	1	6.45×10^4	1
Line/in ²	1.55×10^{-1}	1.55×10^{-5}	1	1.55×10^{-5}
Wb/m ²	10^4	1	6.45×10^4	1

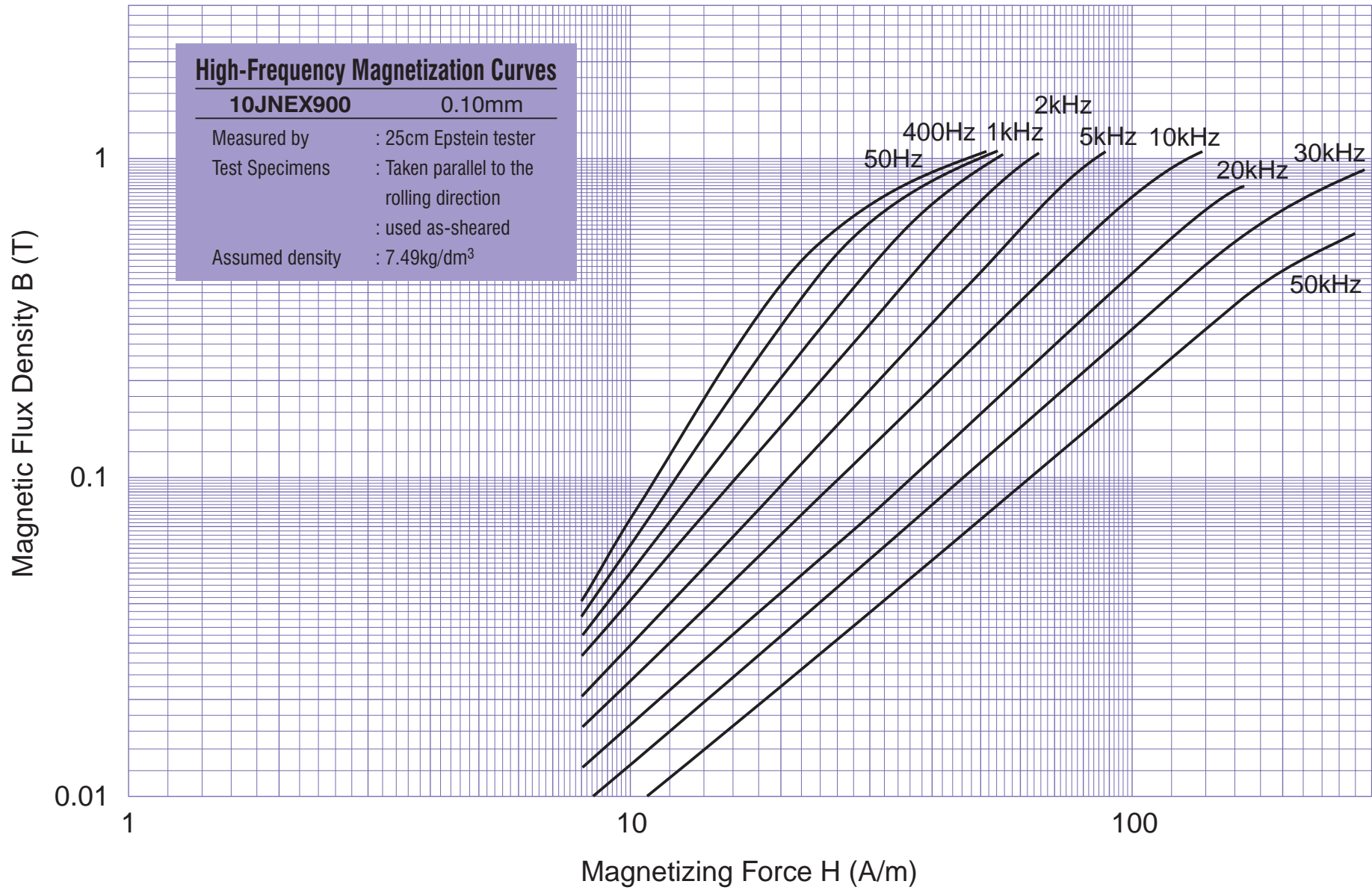
Magnetic Permeability

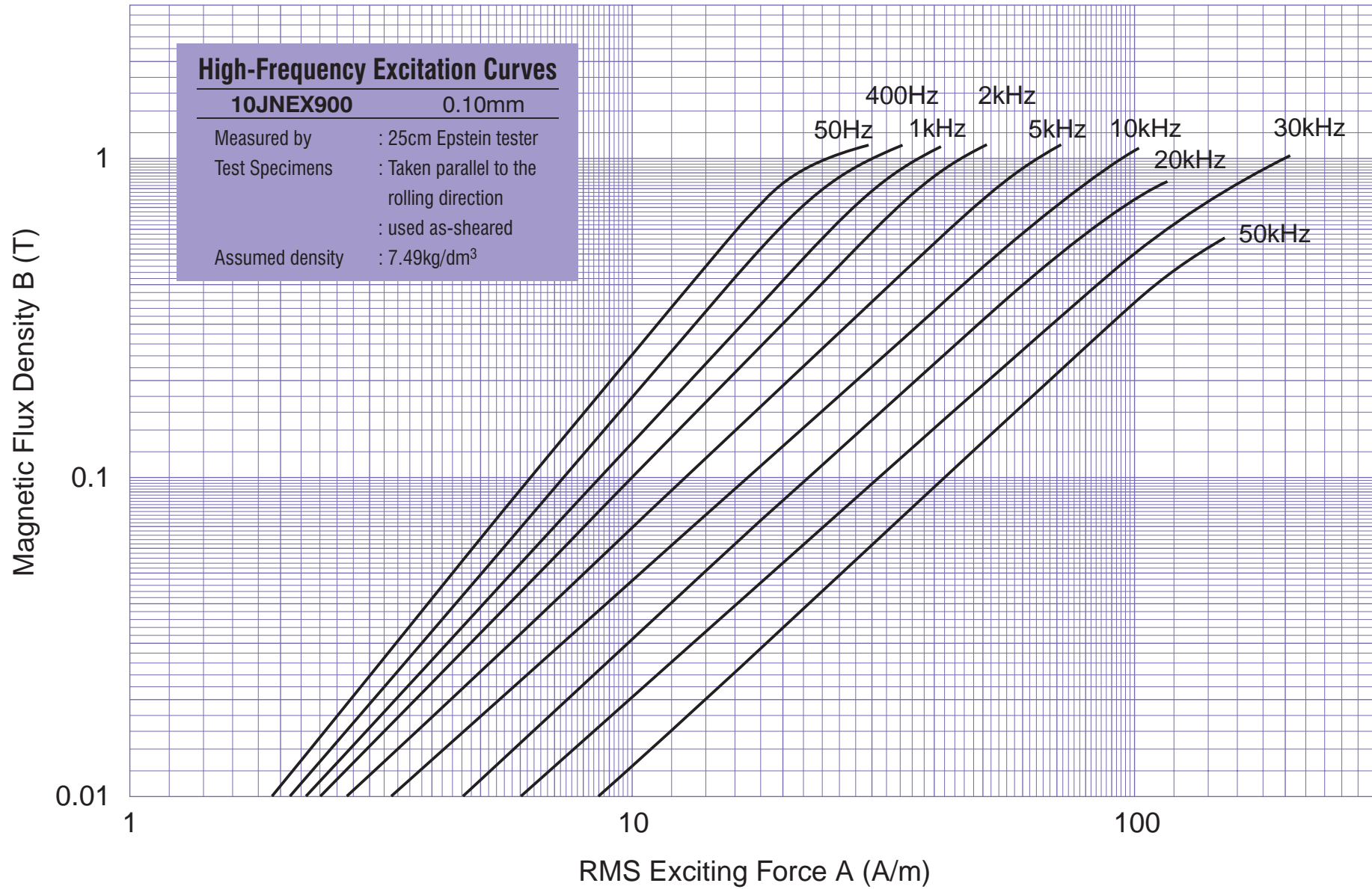
	Gauss/Oe	H/m
CGS Electro-magnetic Unit	1	1.257×10^{-6}
Henry per Meter(H/m)	7.958×10^5	1

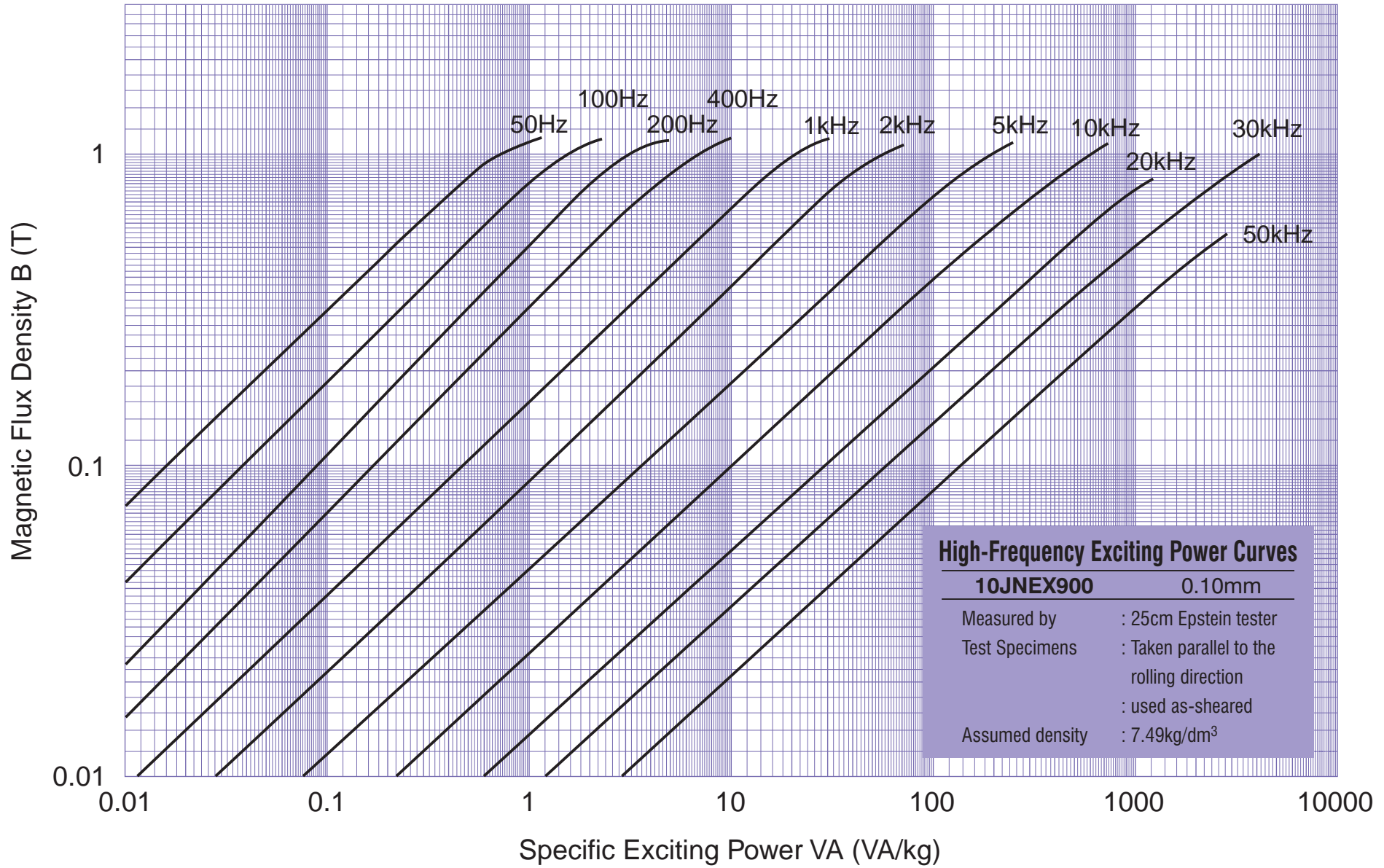
Conversion of Core Loss as per AISA

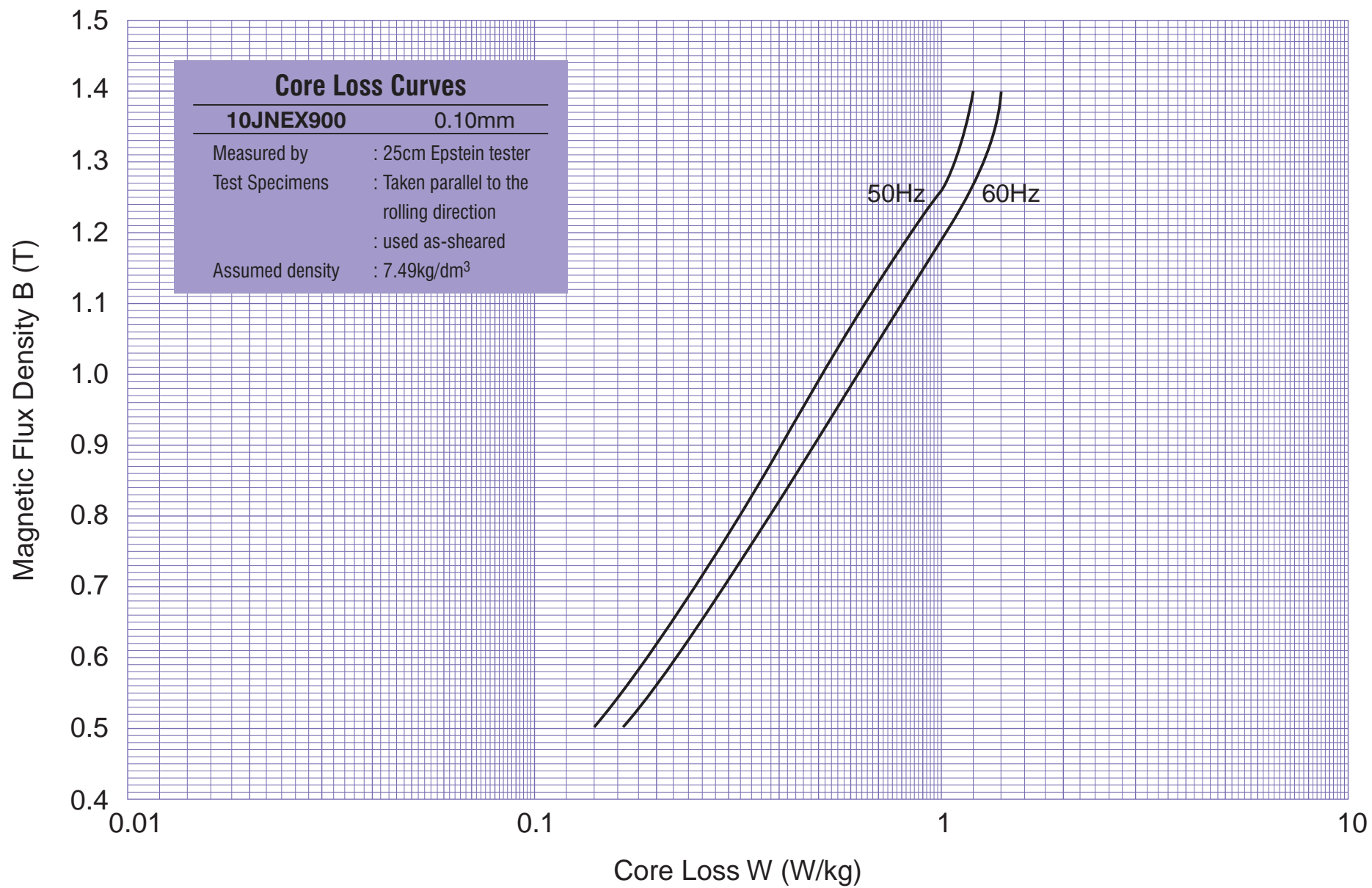
	W/kg 60Hz	W/kg 50Hz
W/kg 60Hz	1	0.79
W/kg 50Hz	1.266	1

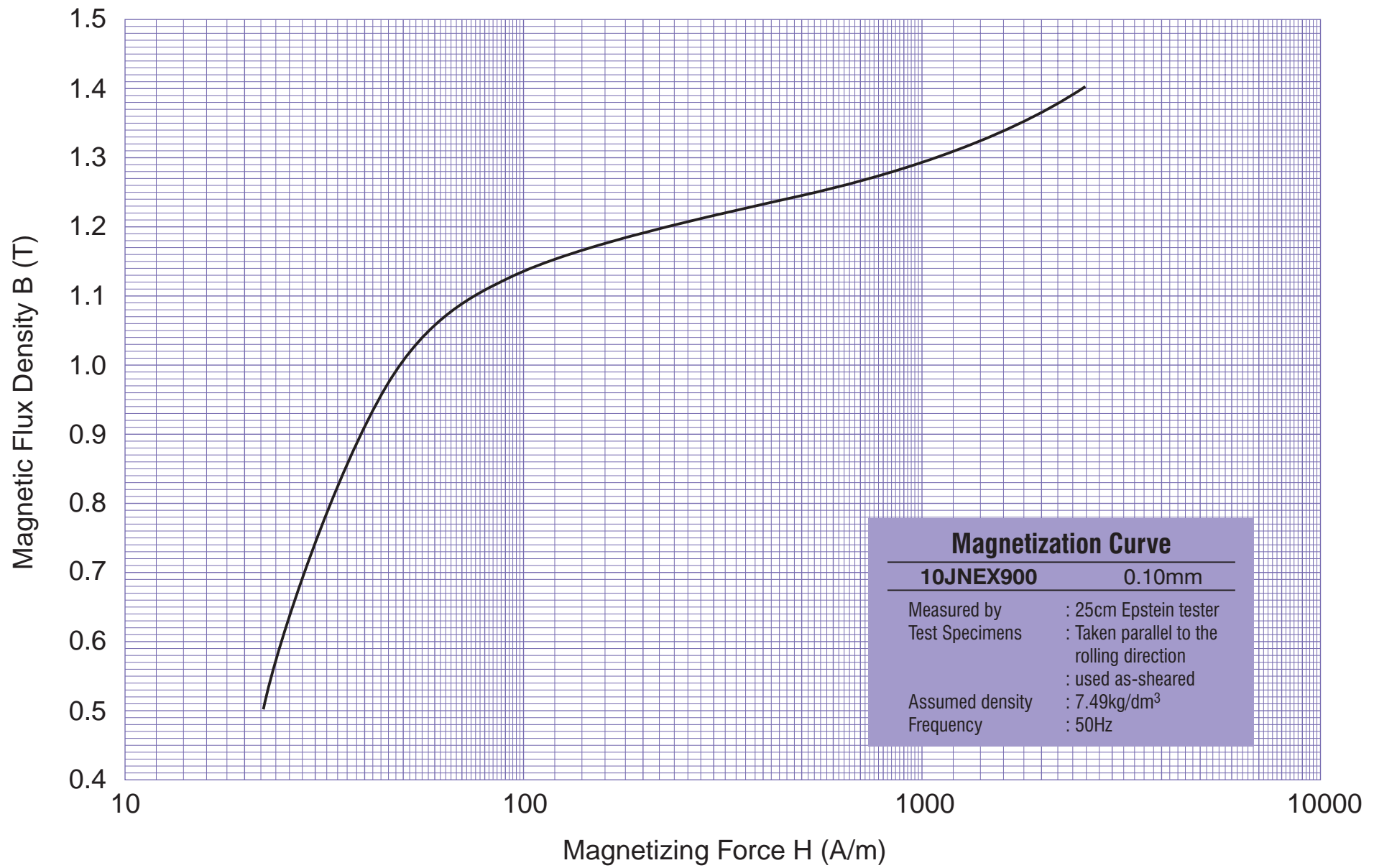


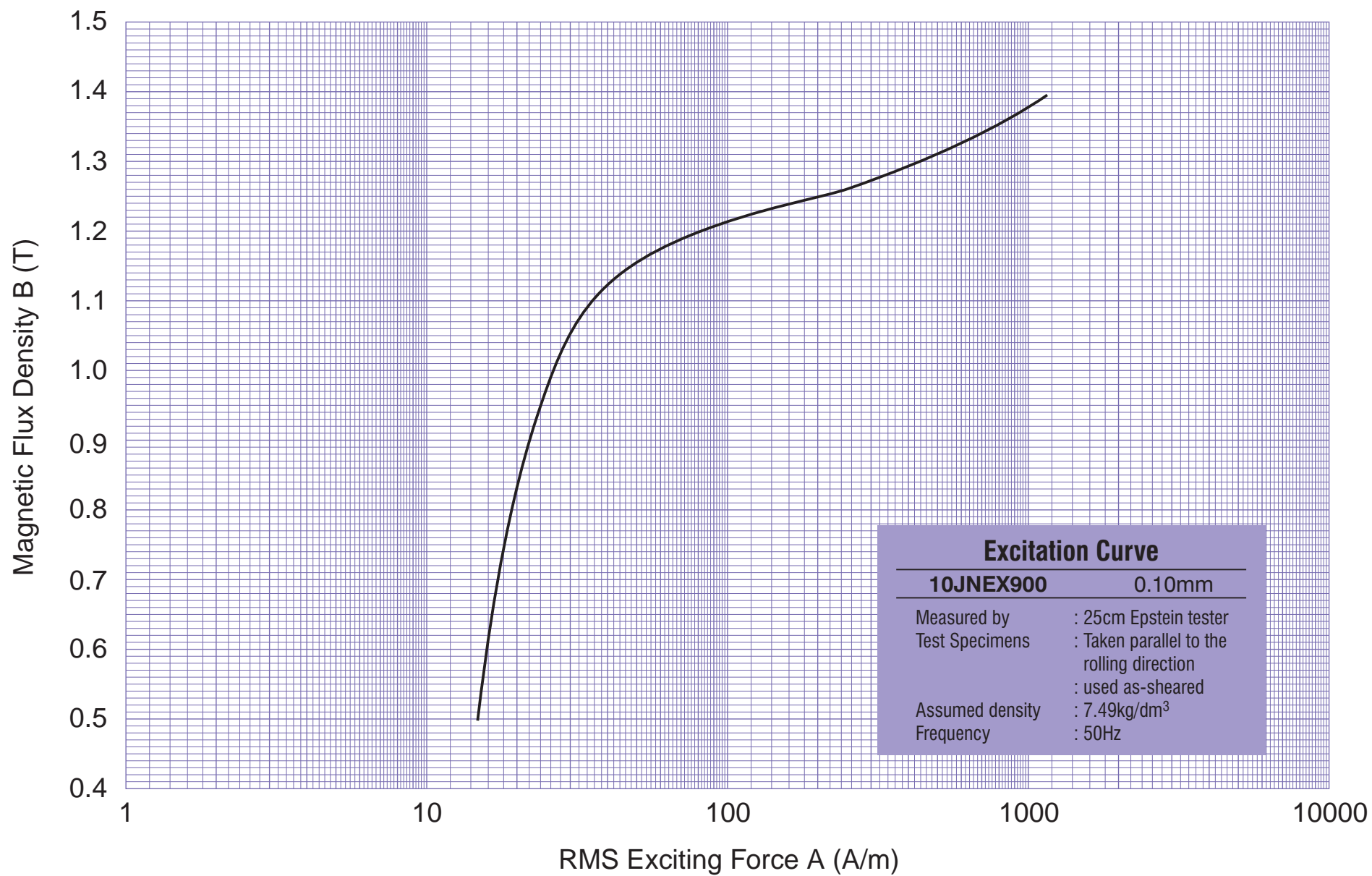


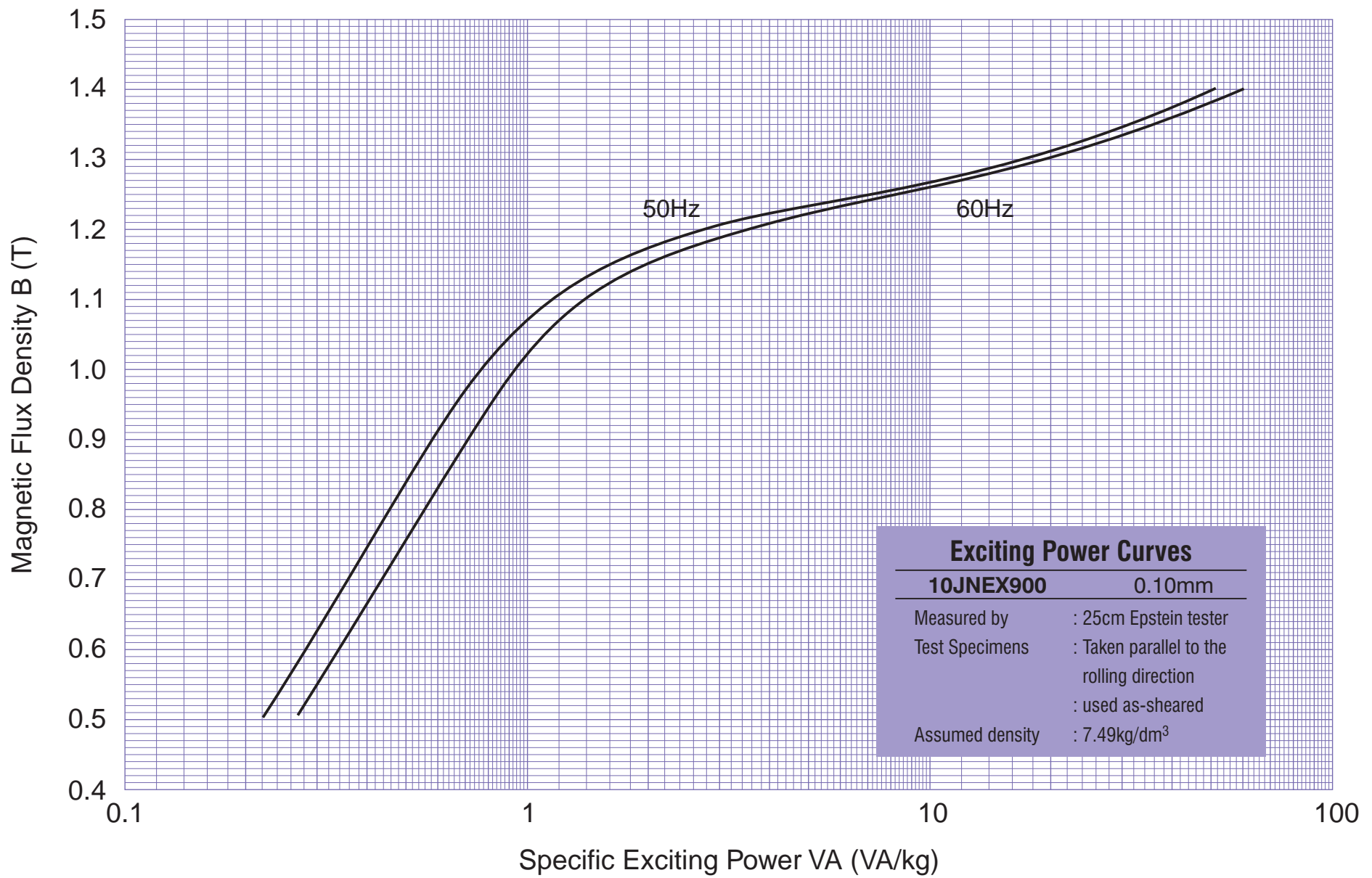


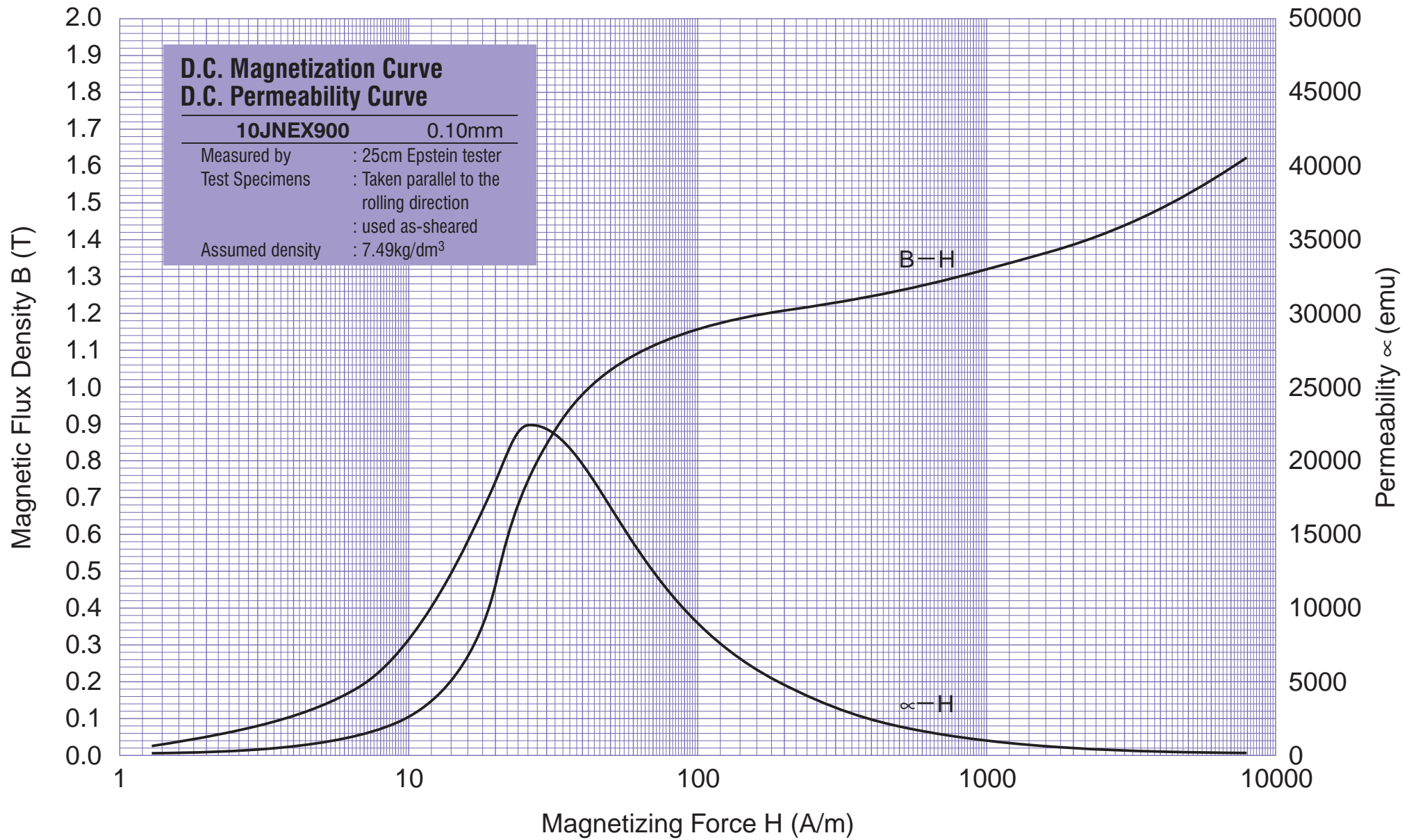


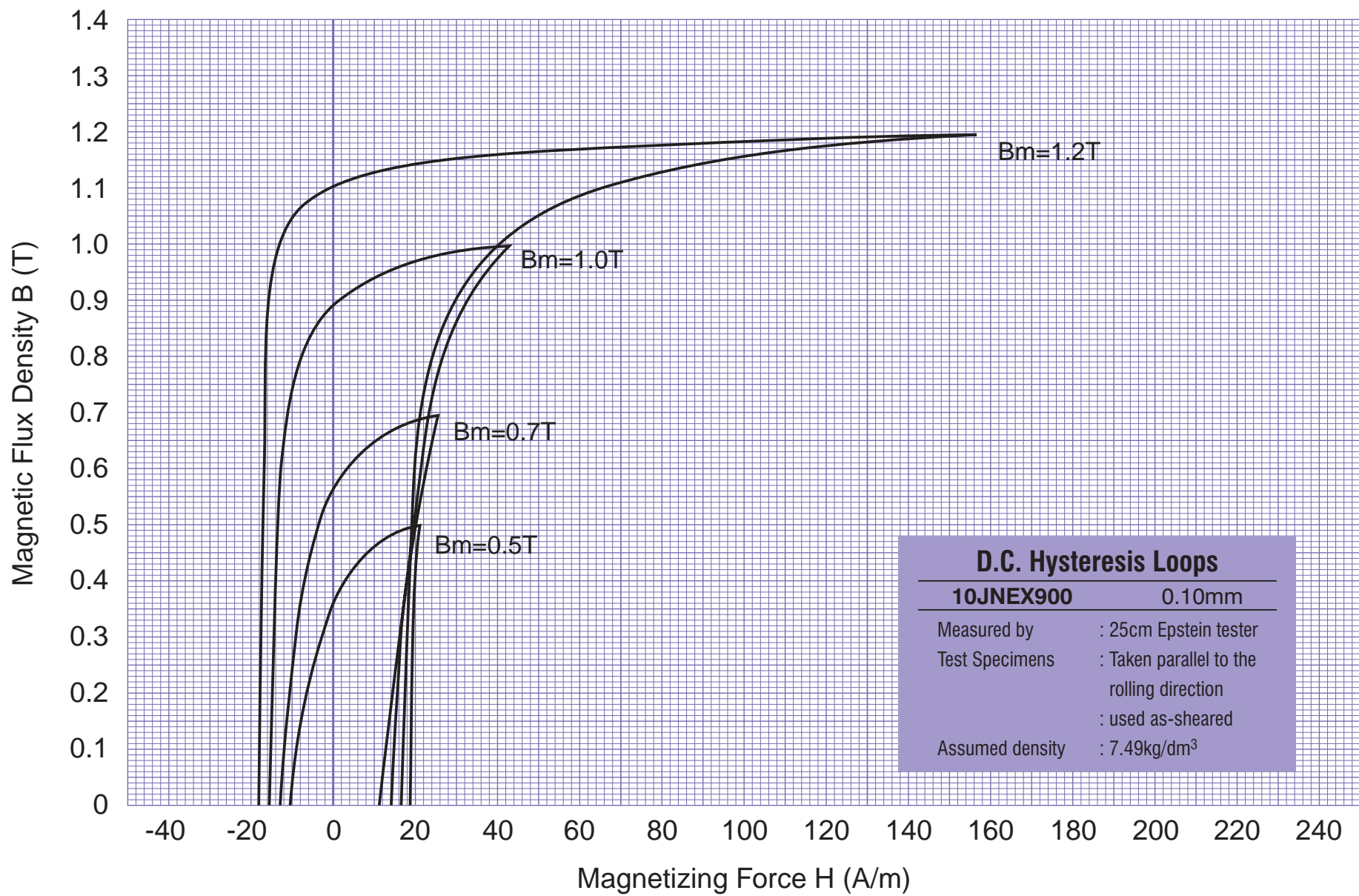


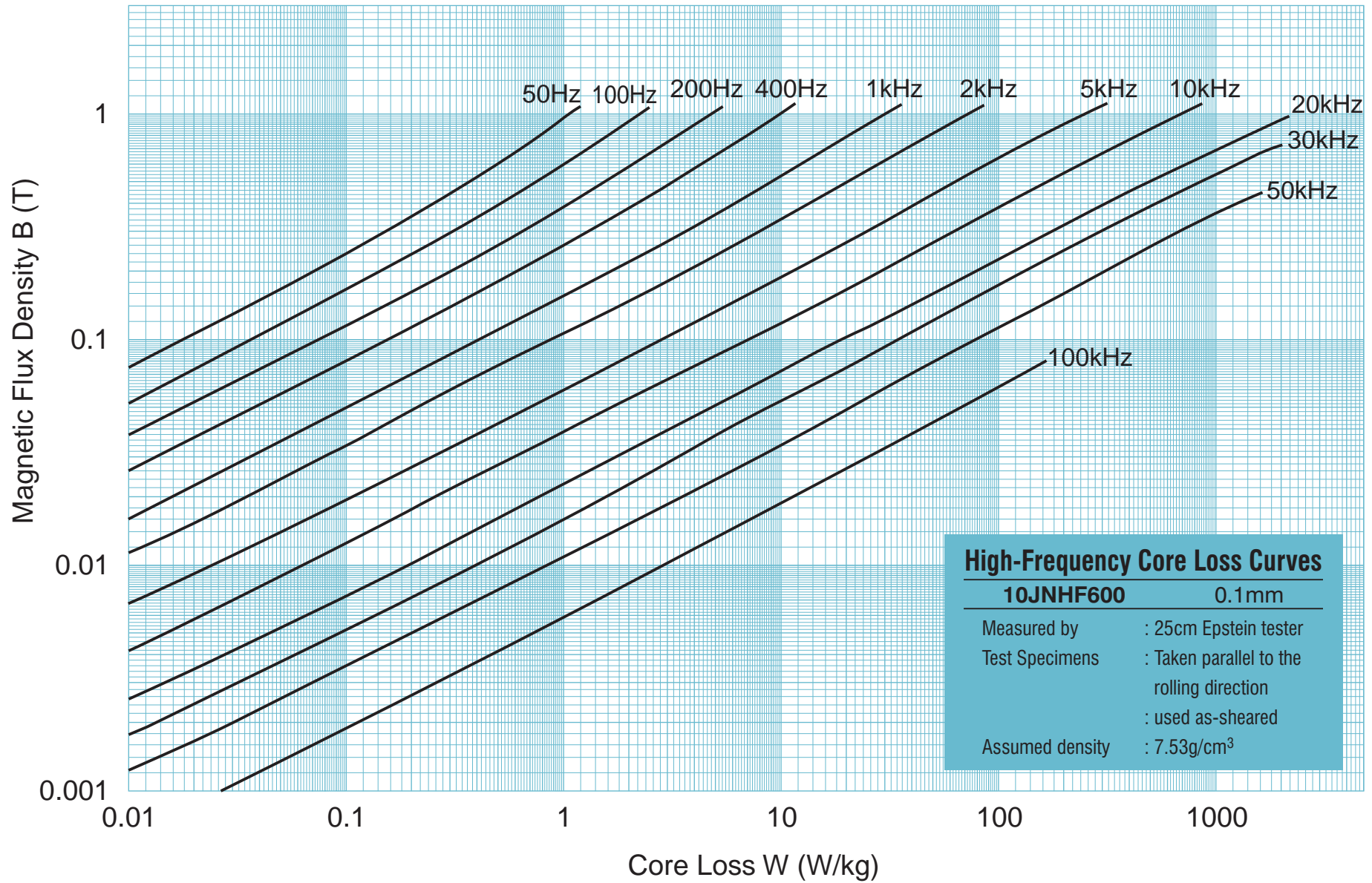


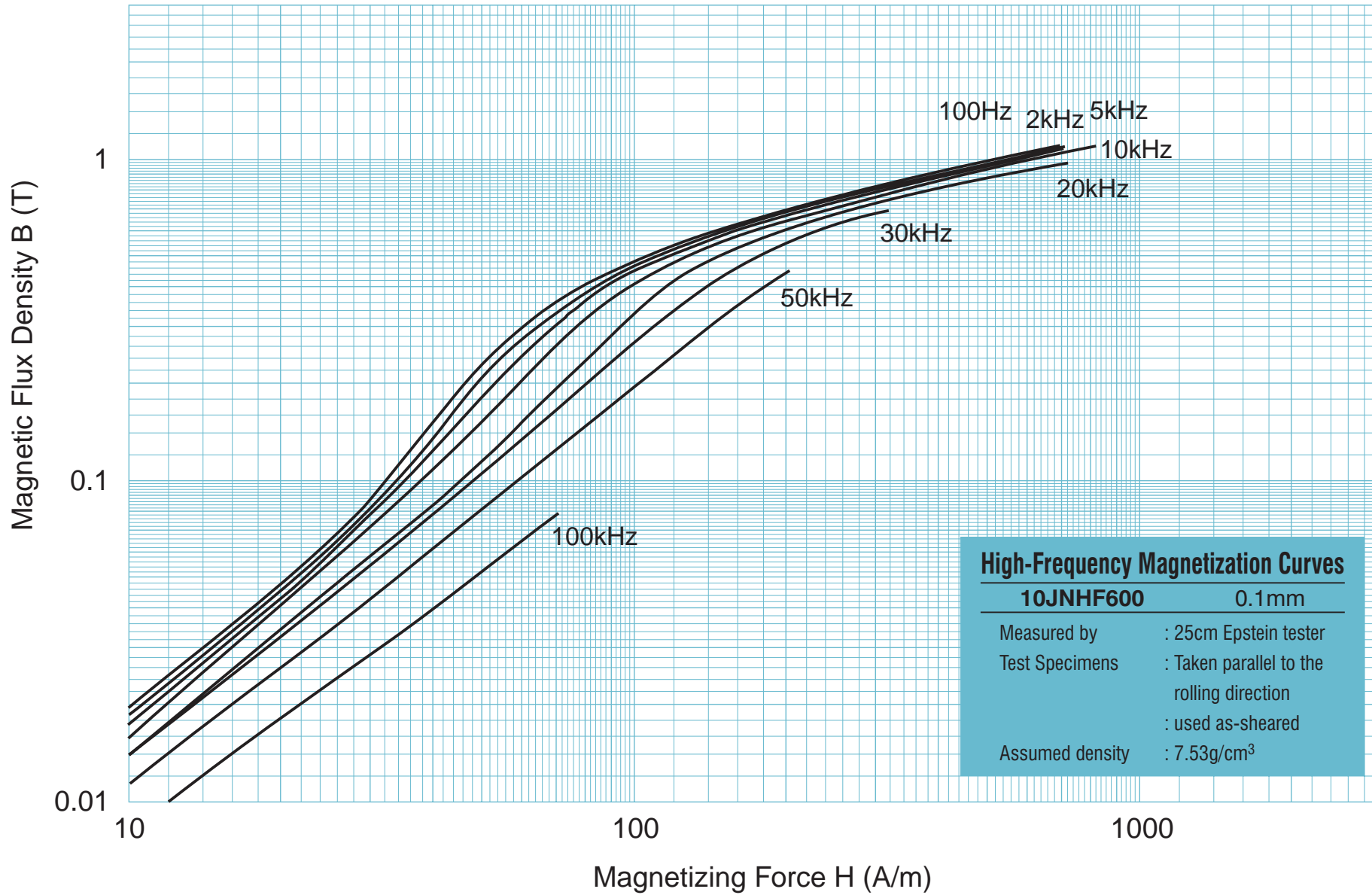


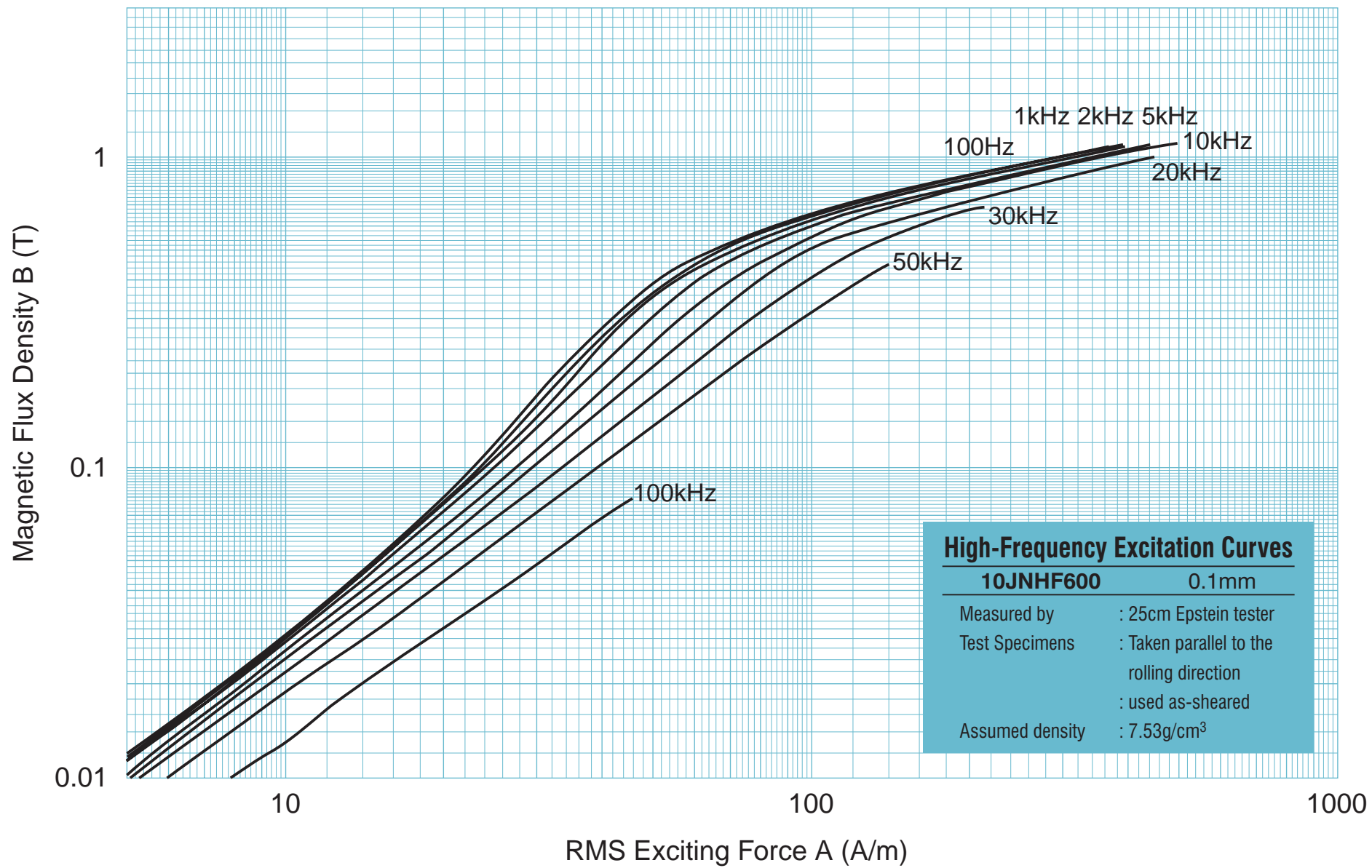


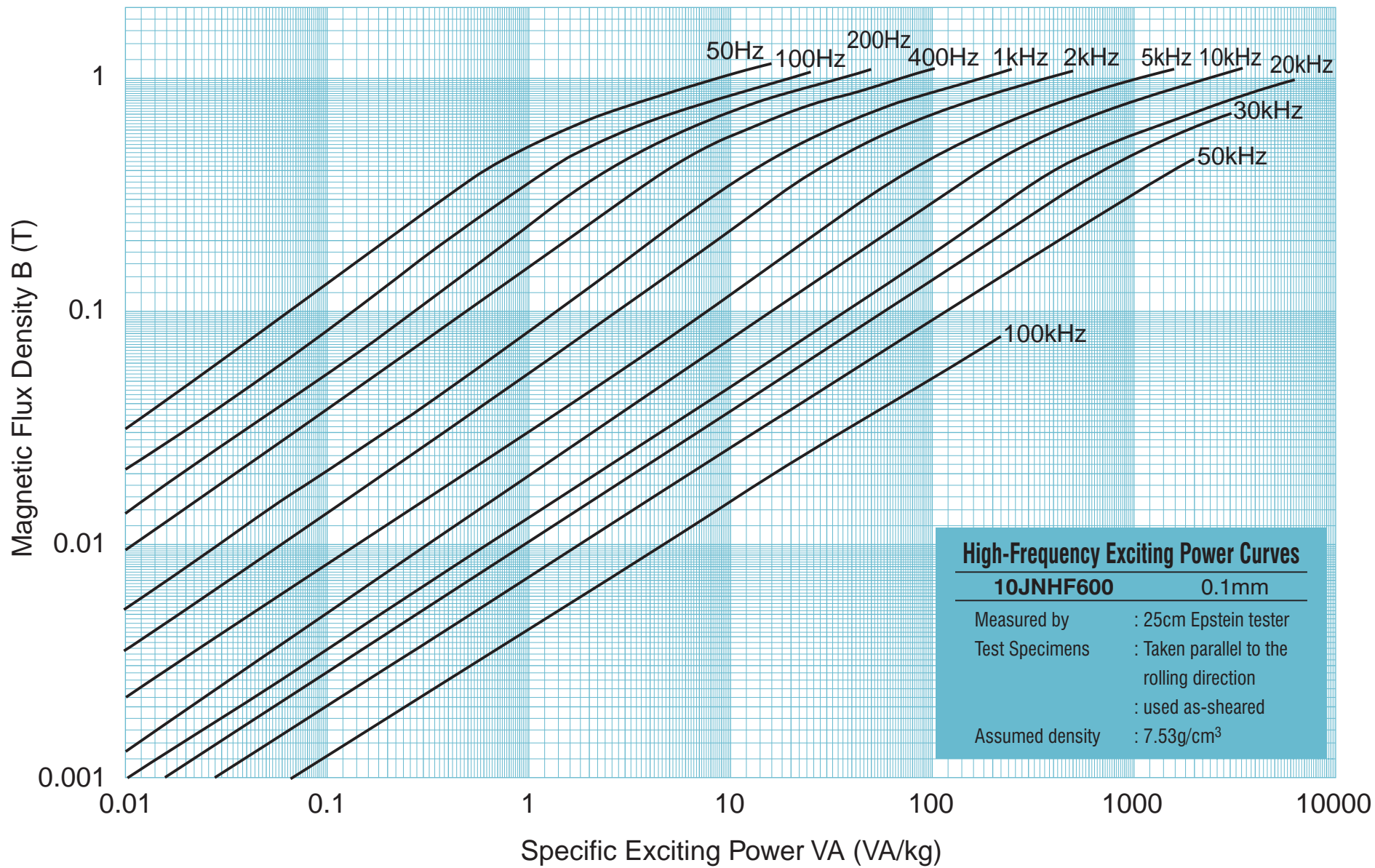


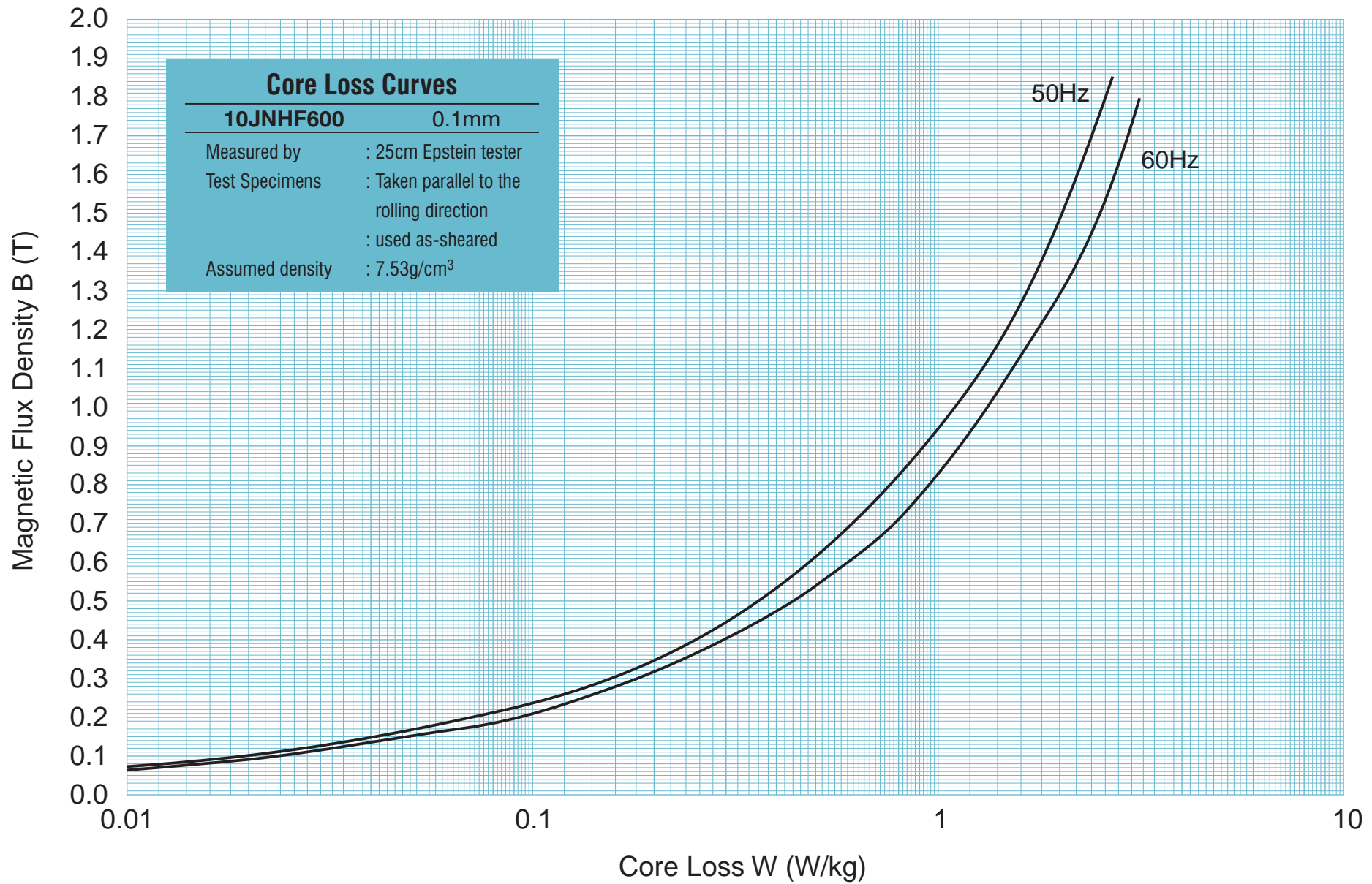


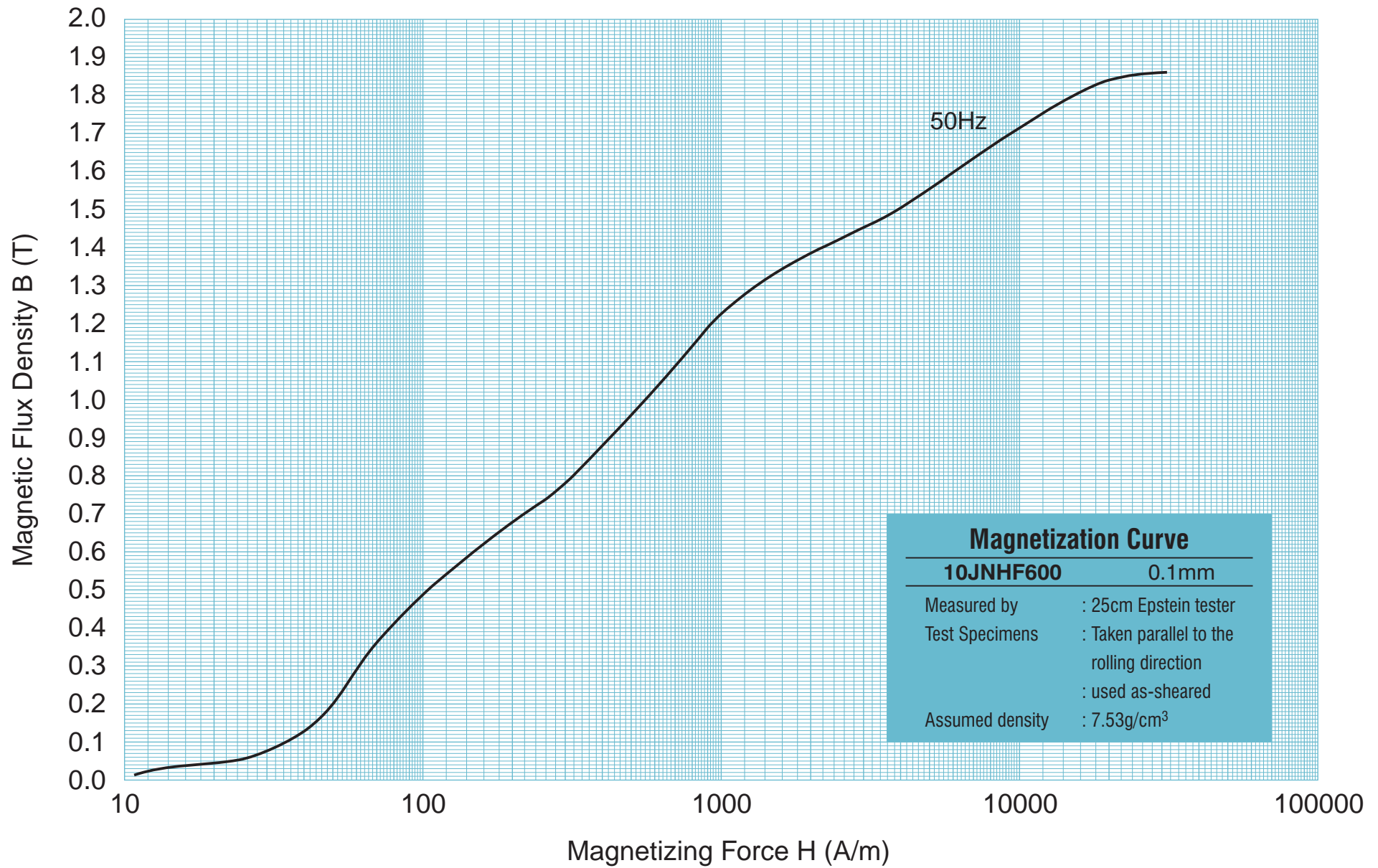


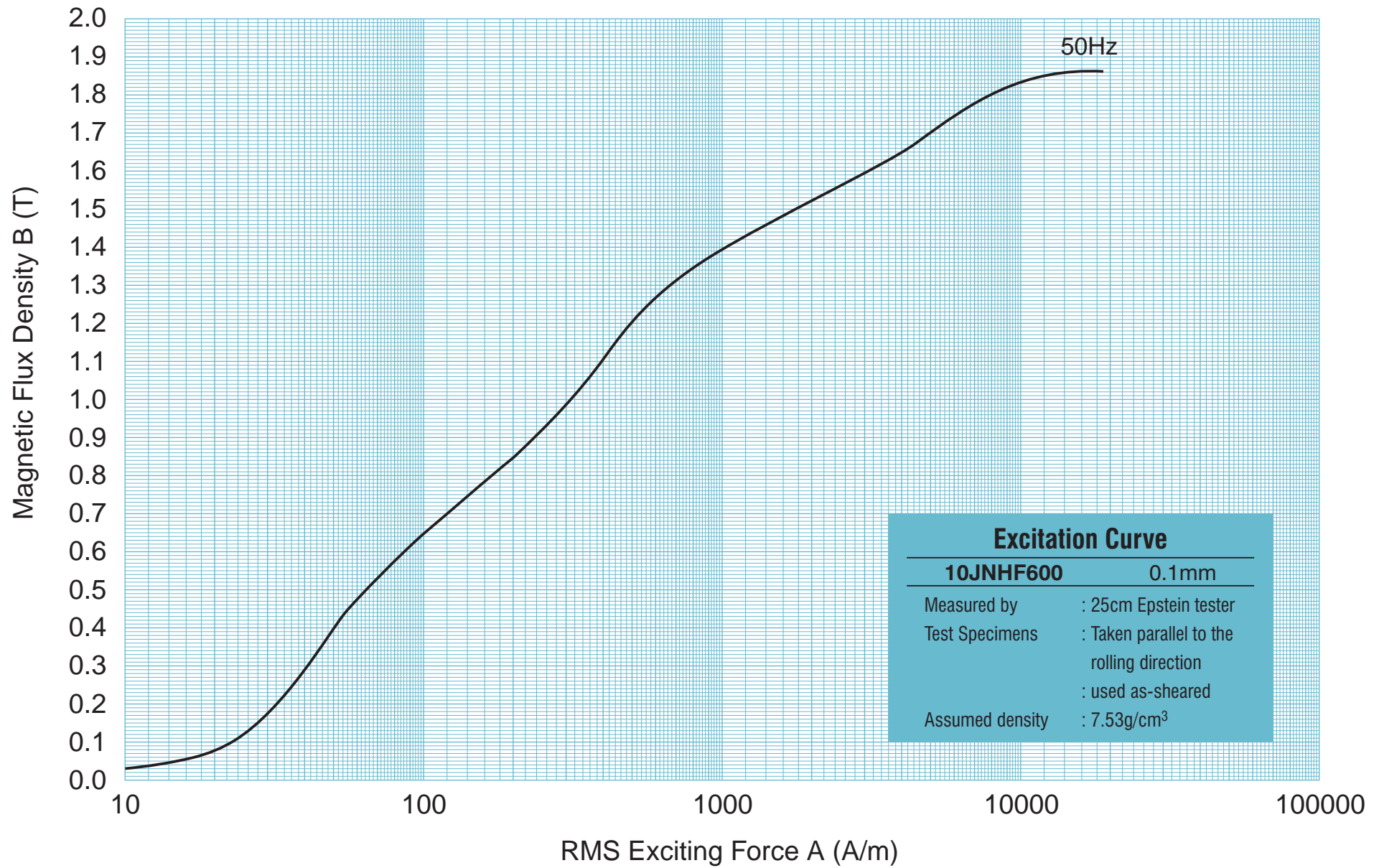


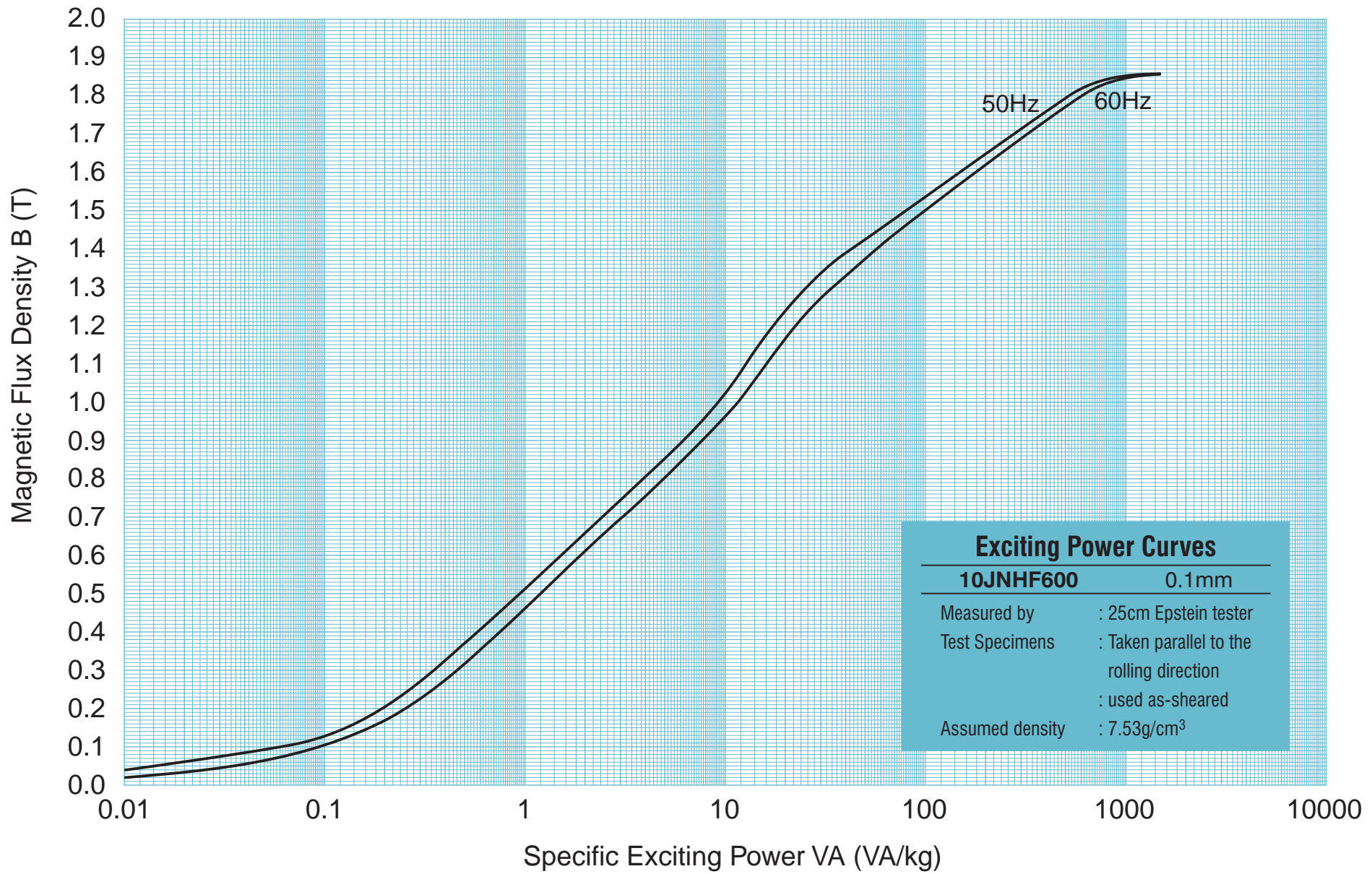


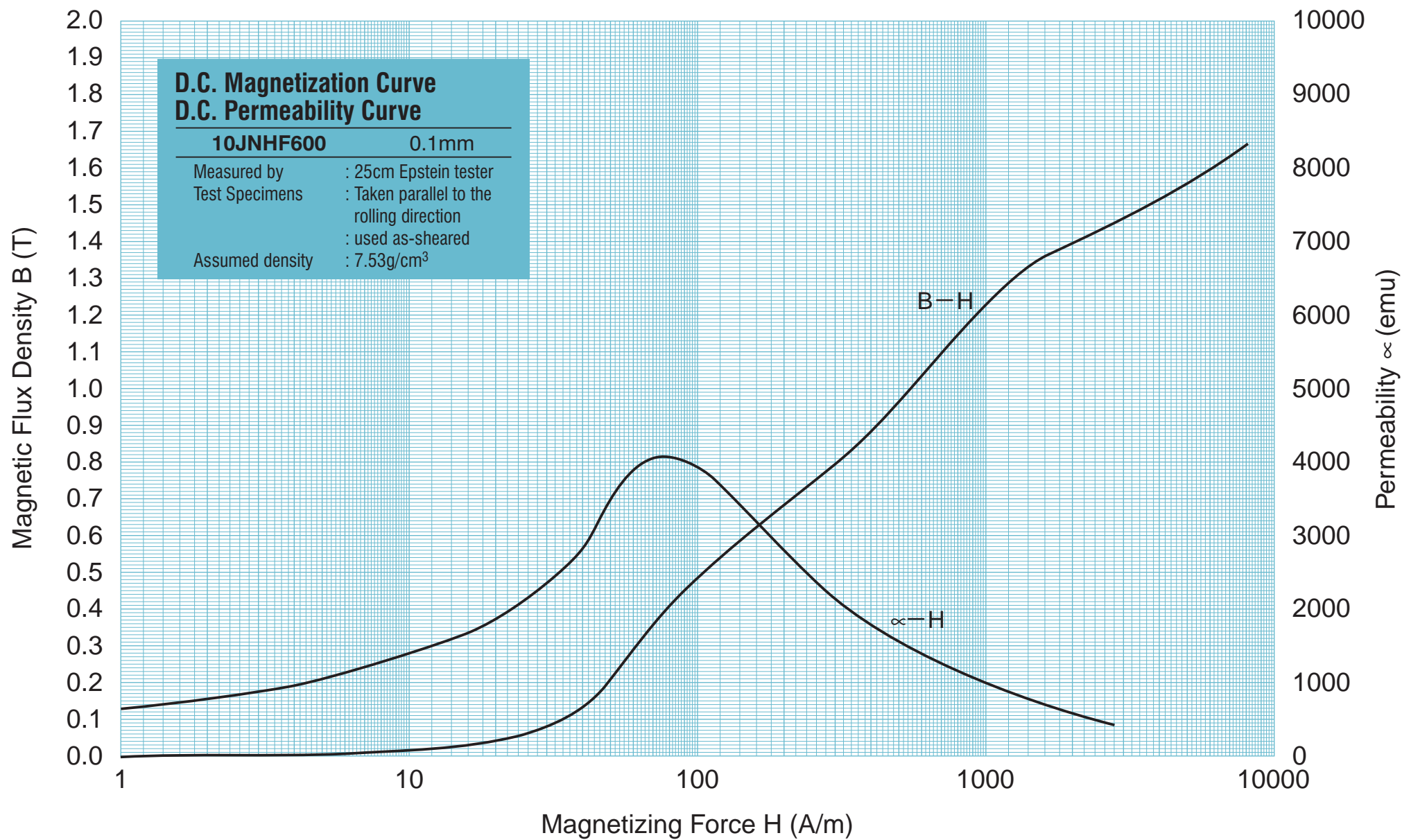


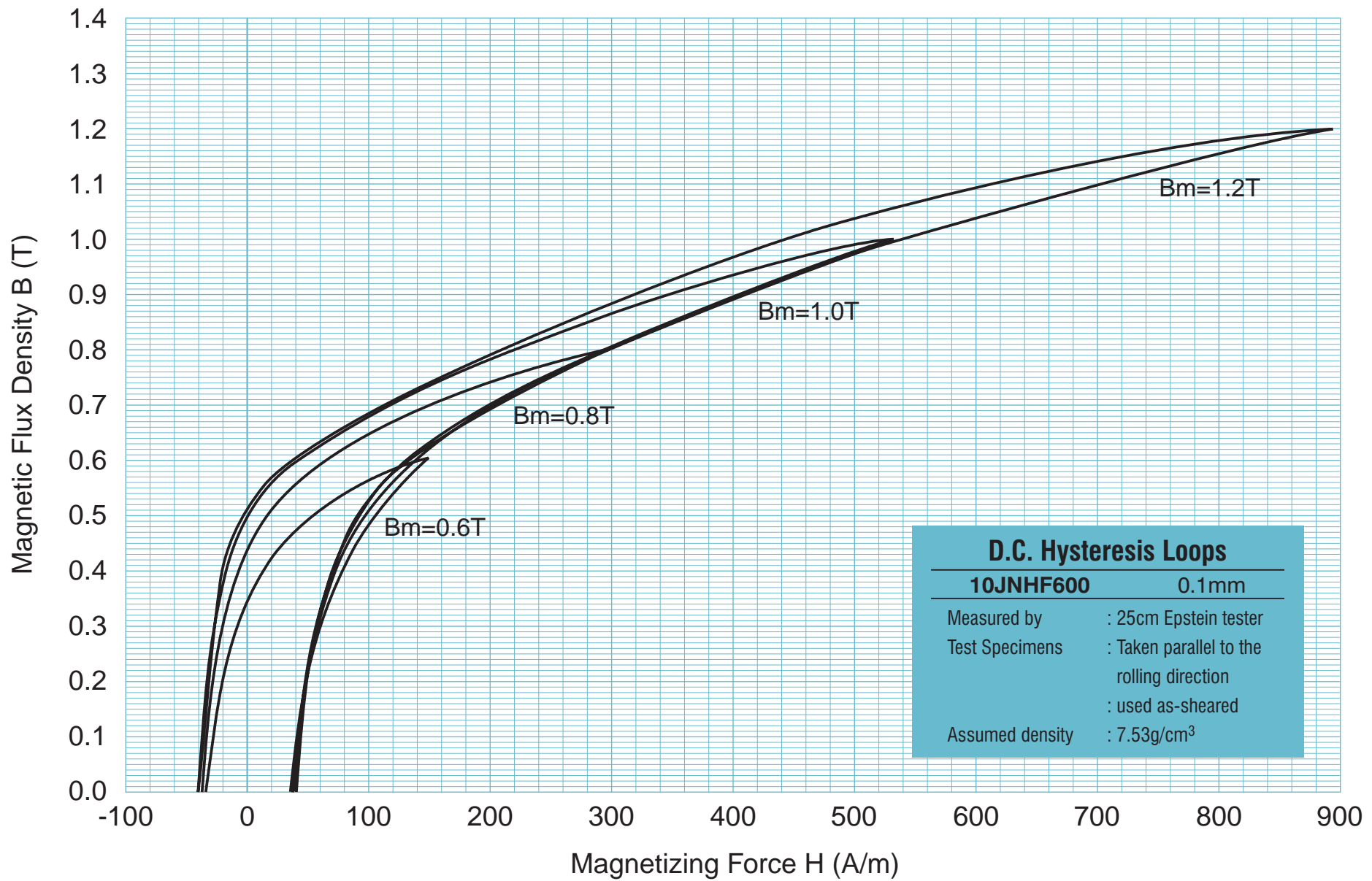


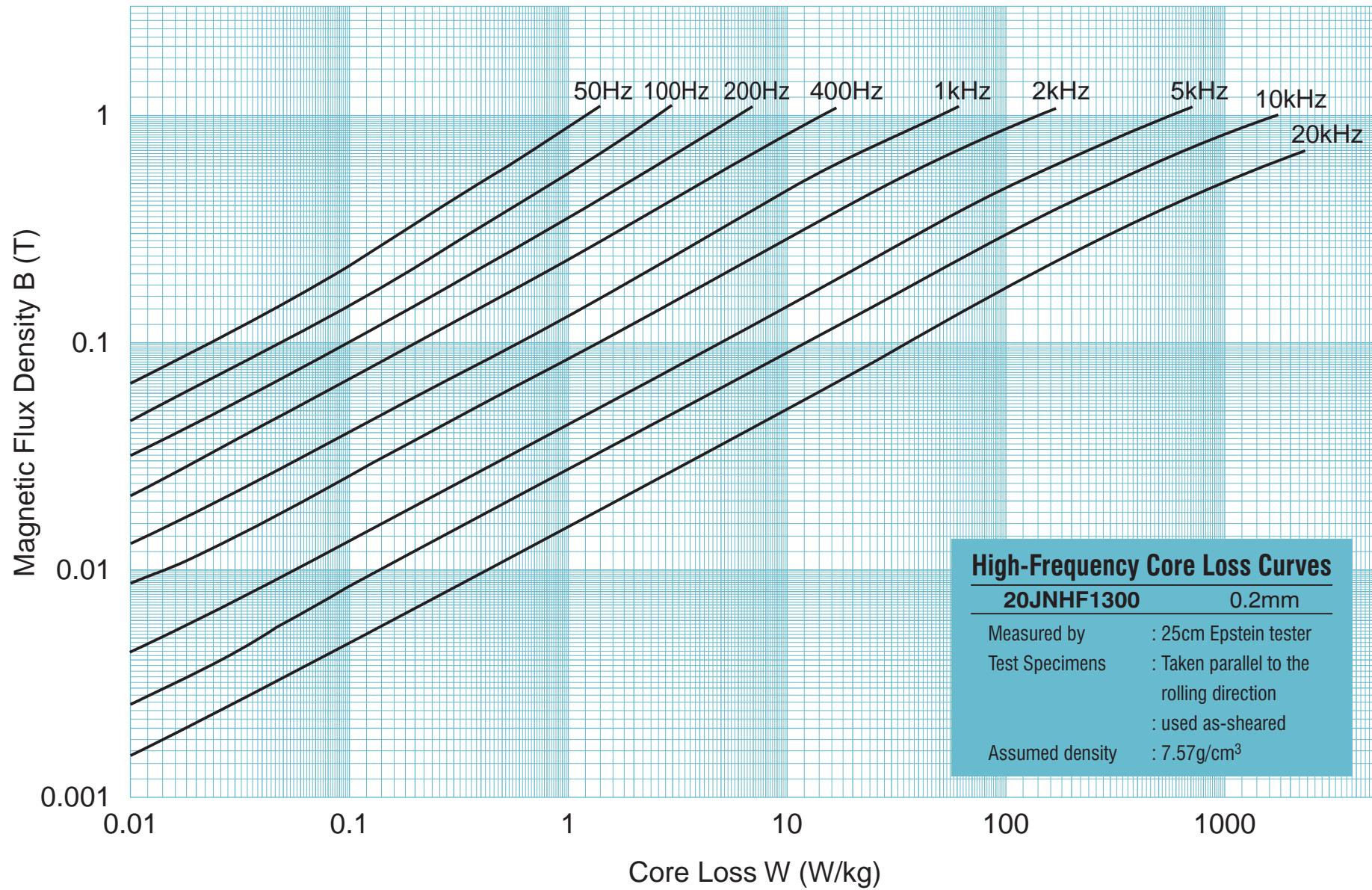


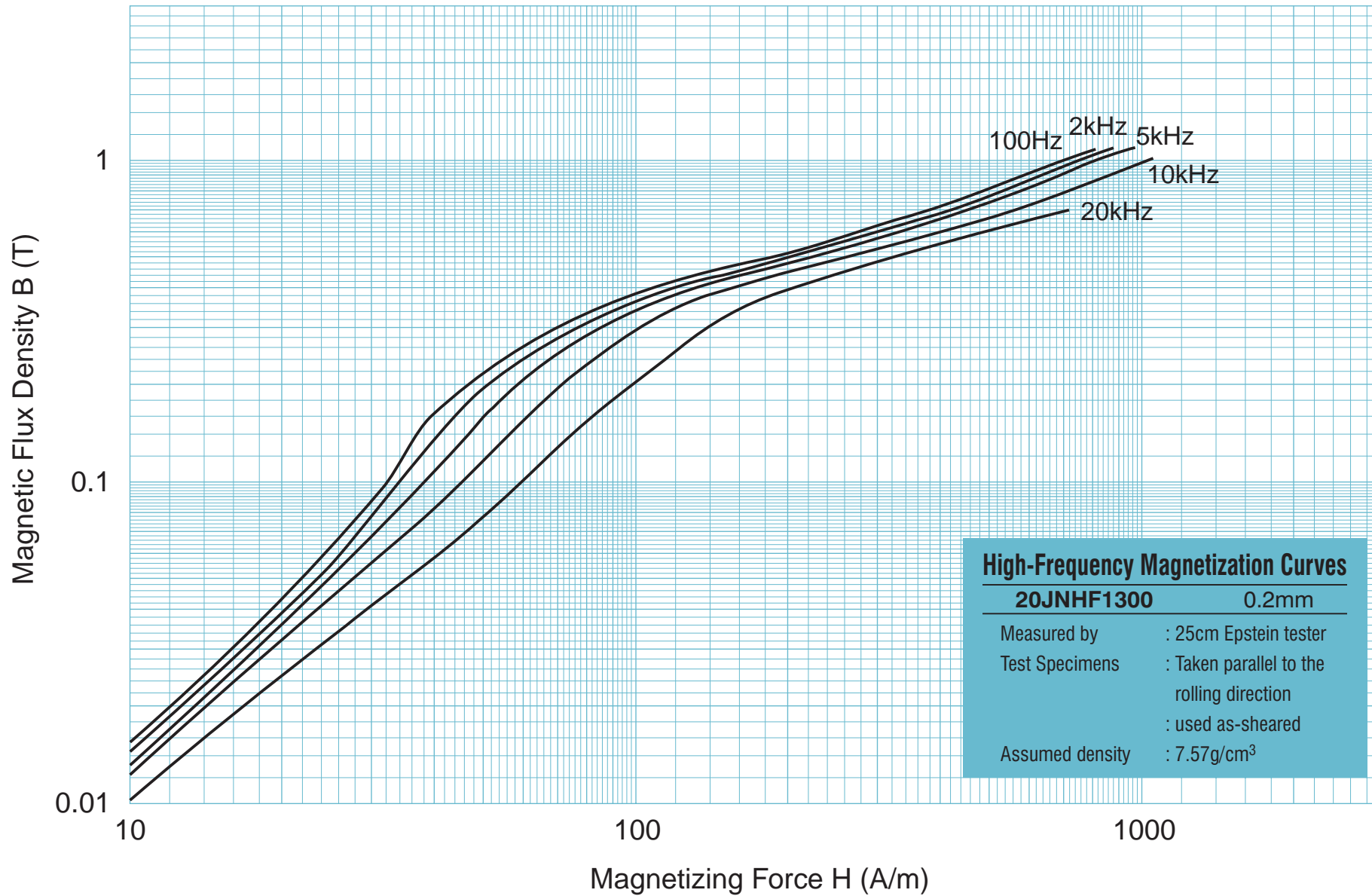


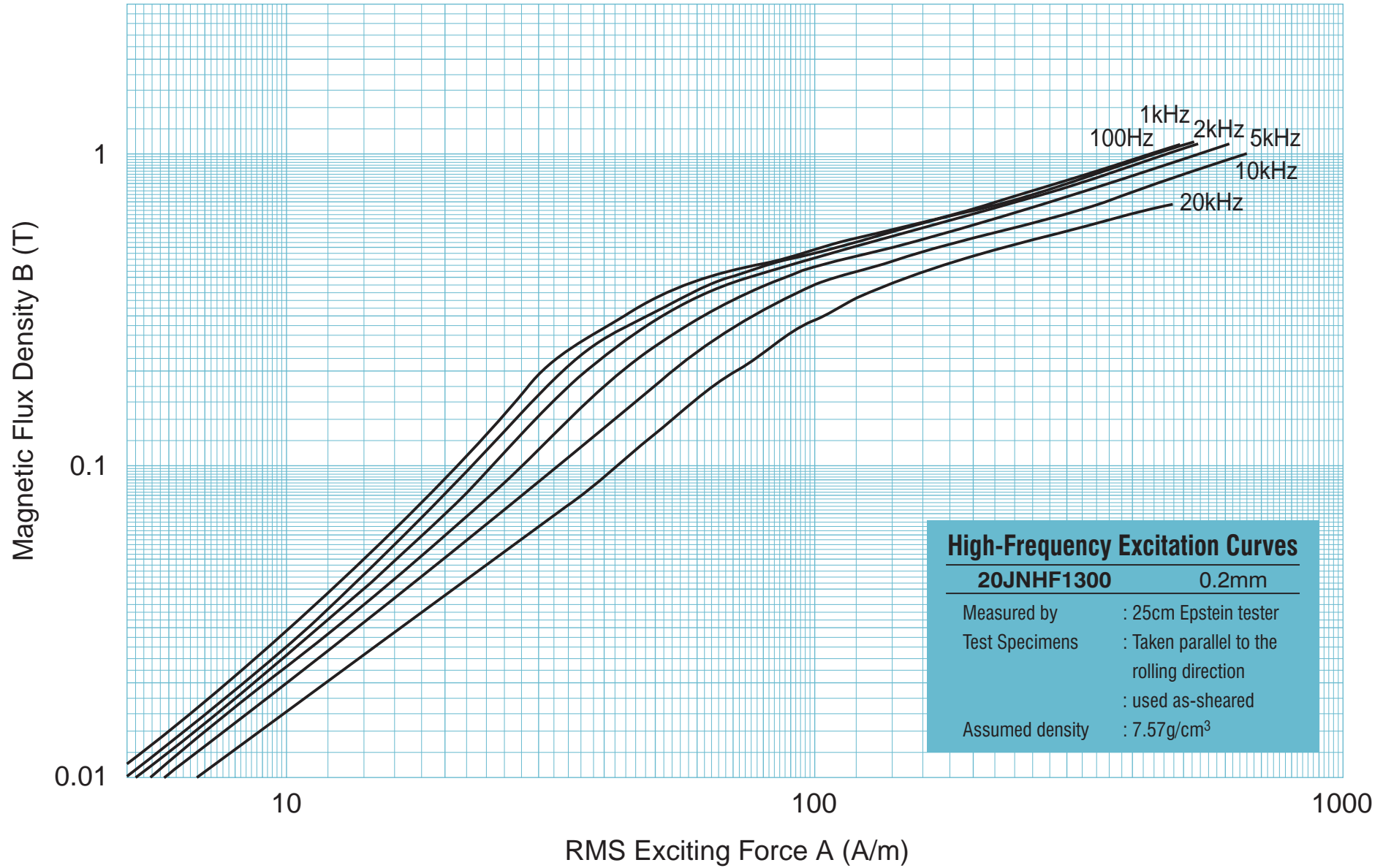


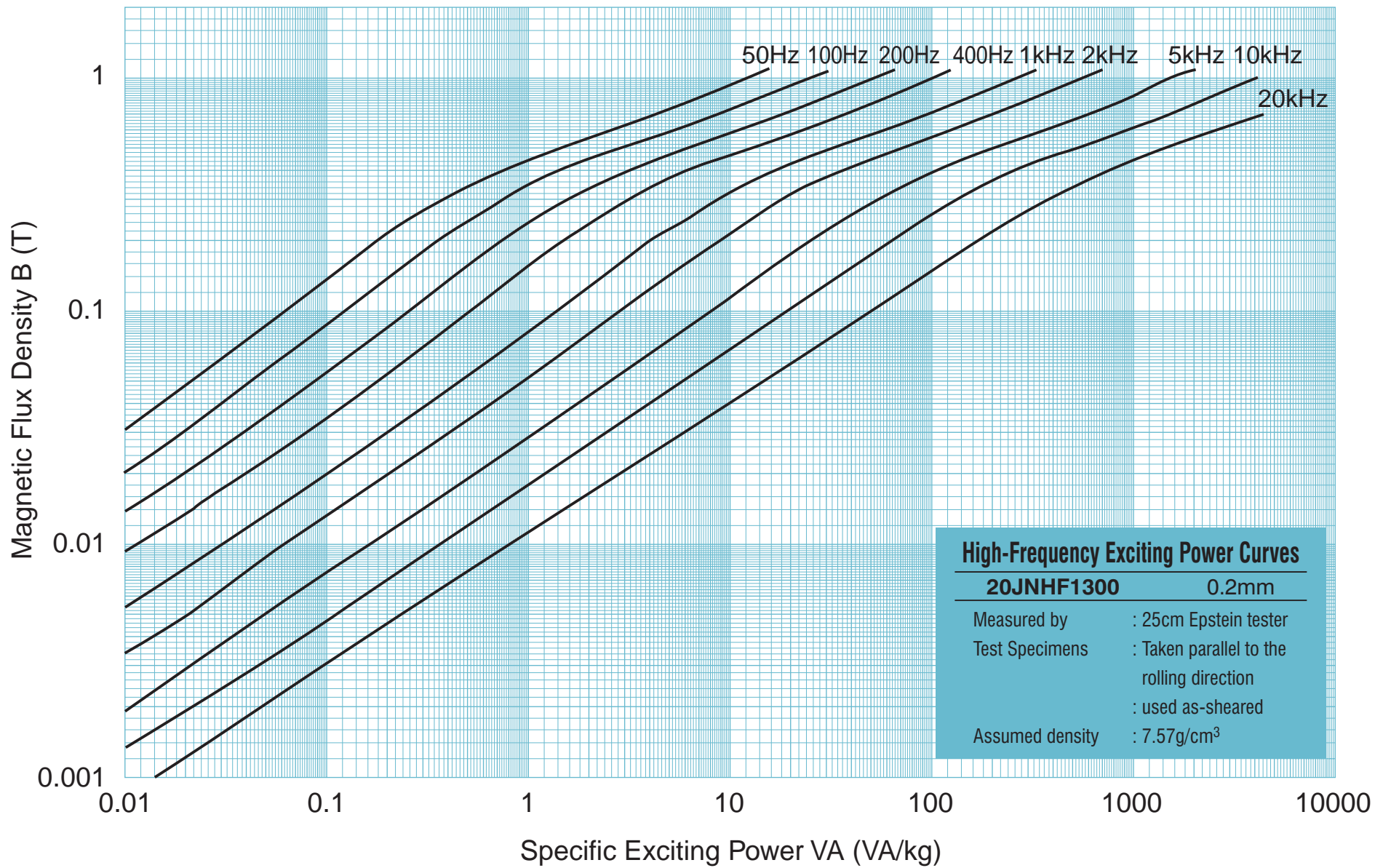


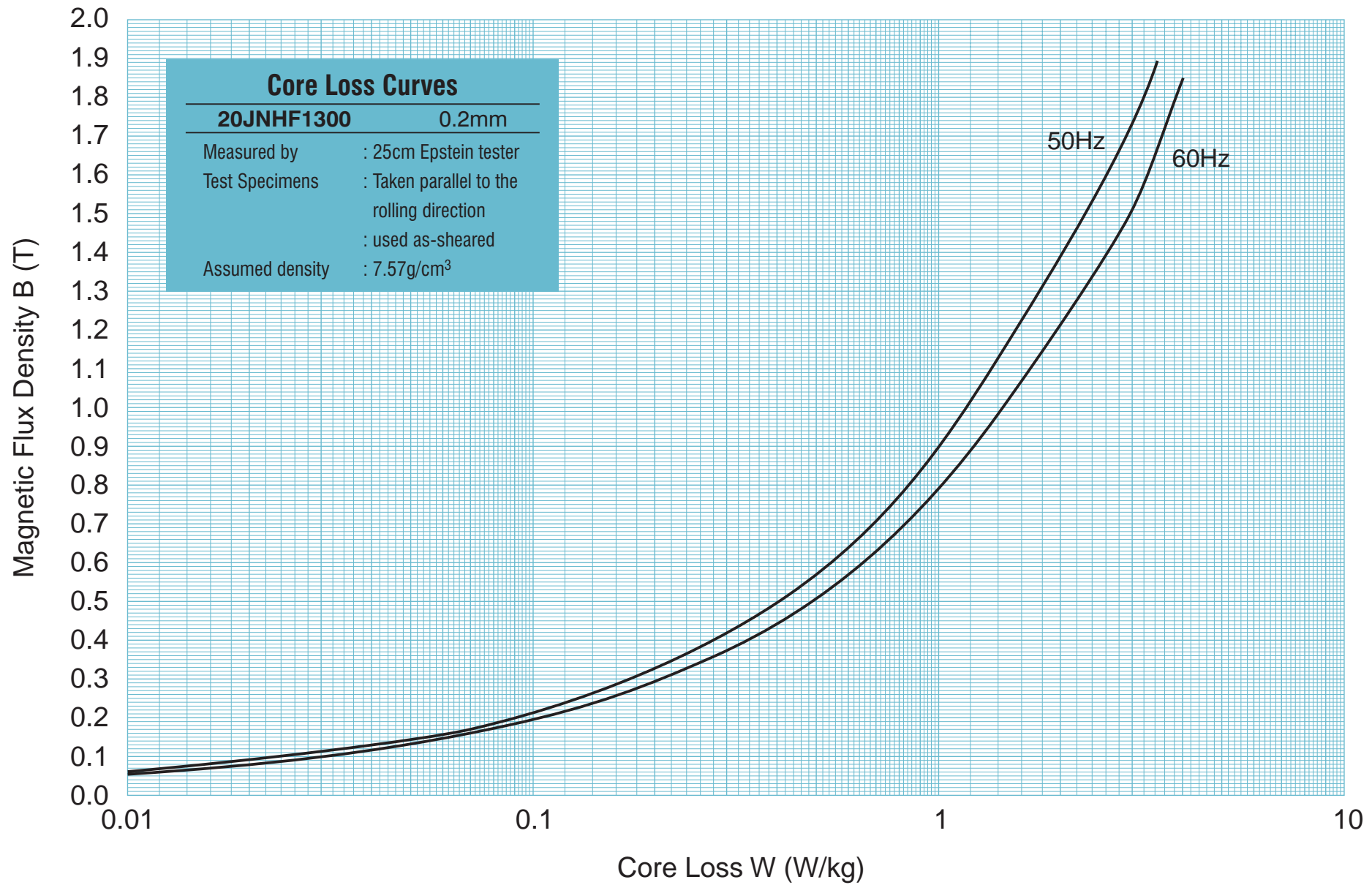


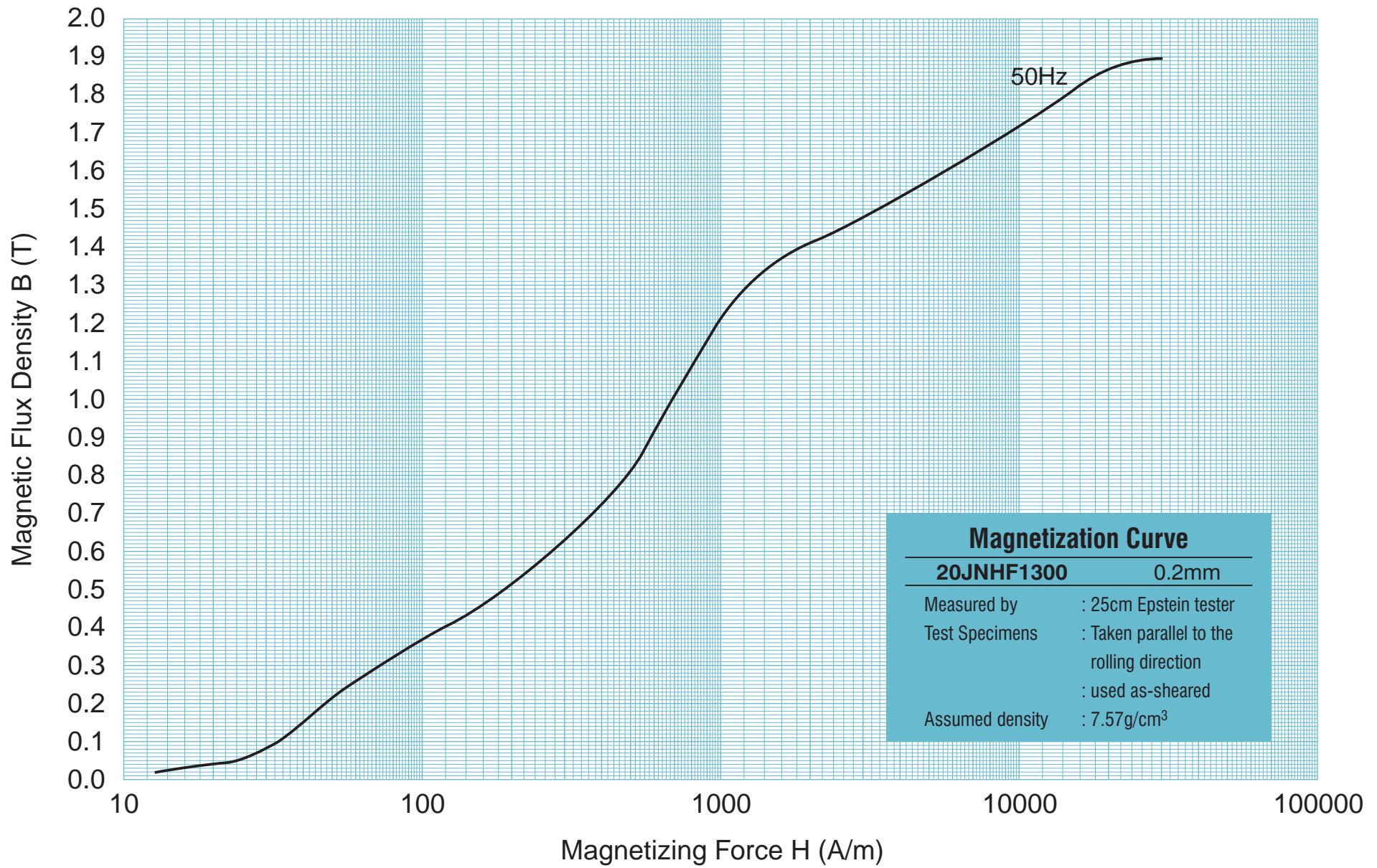




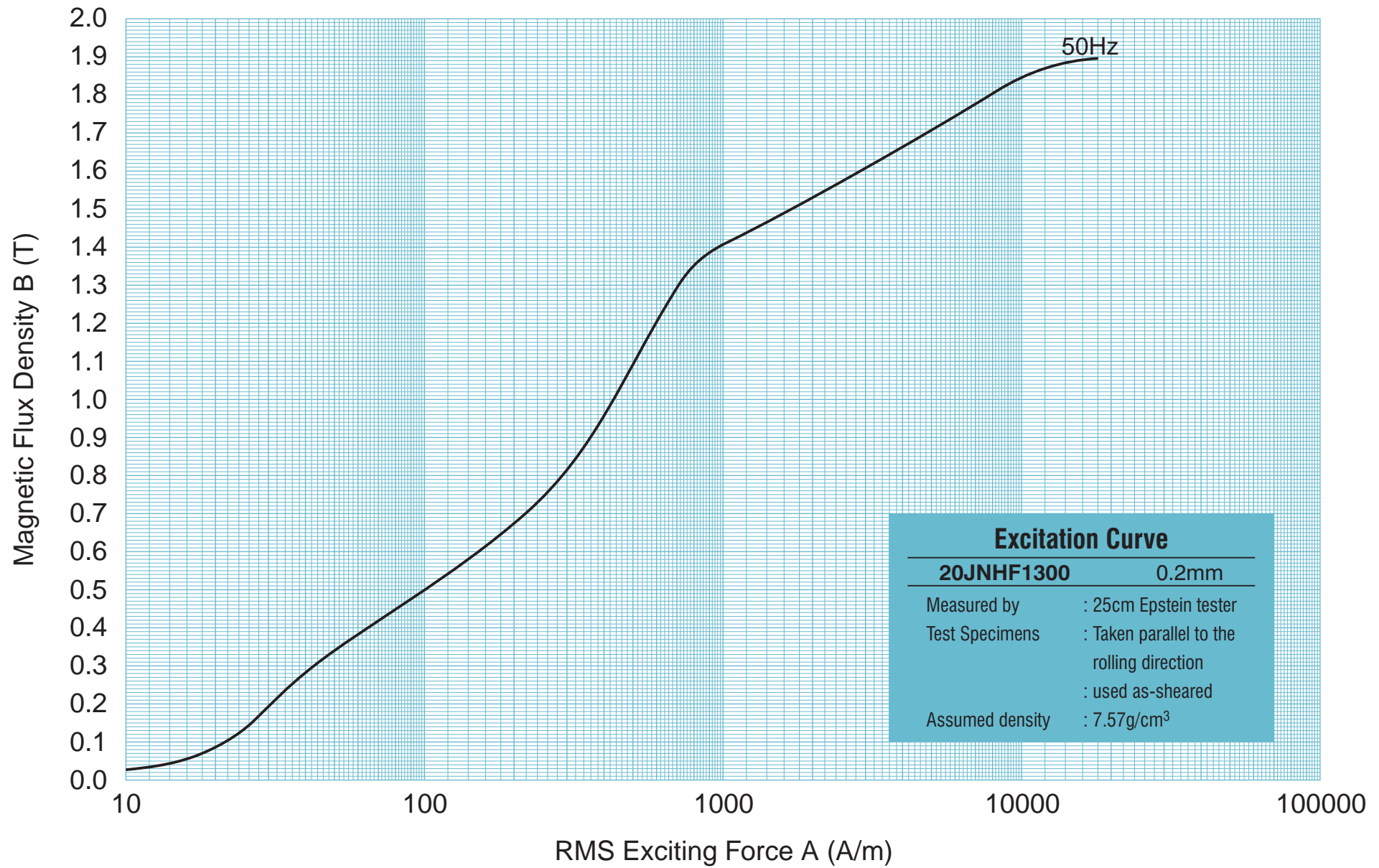


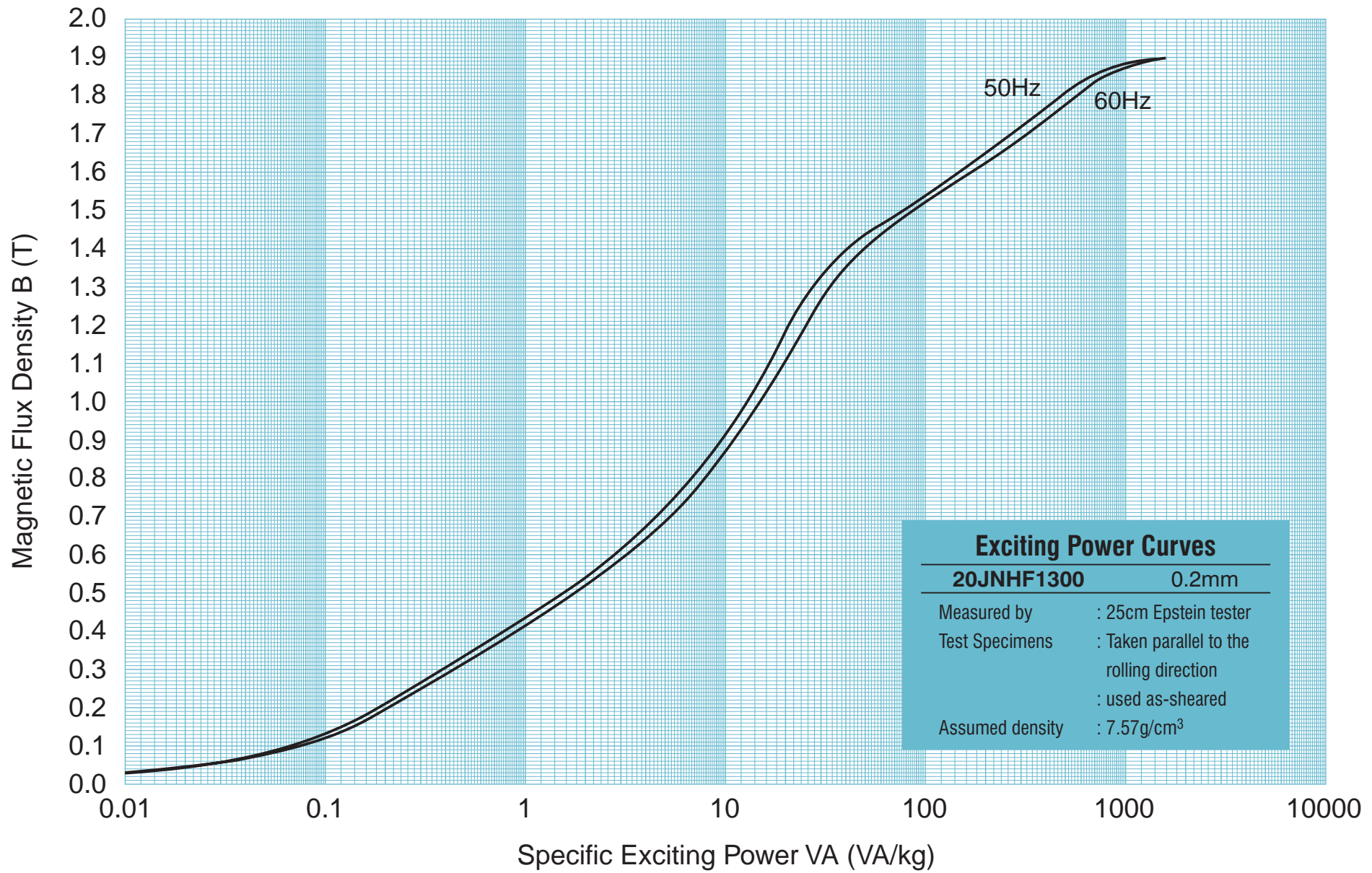


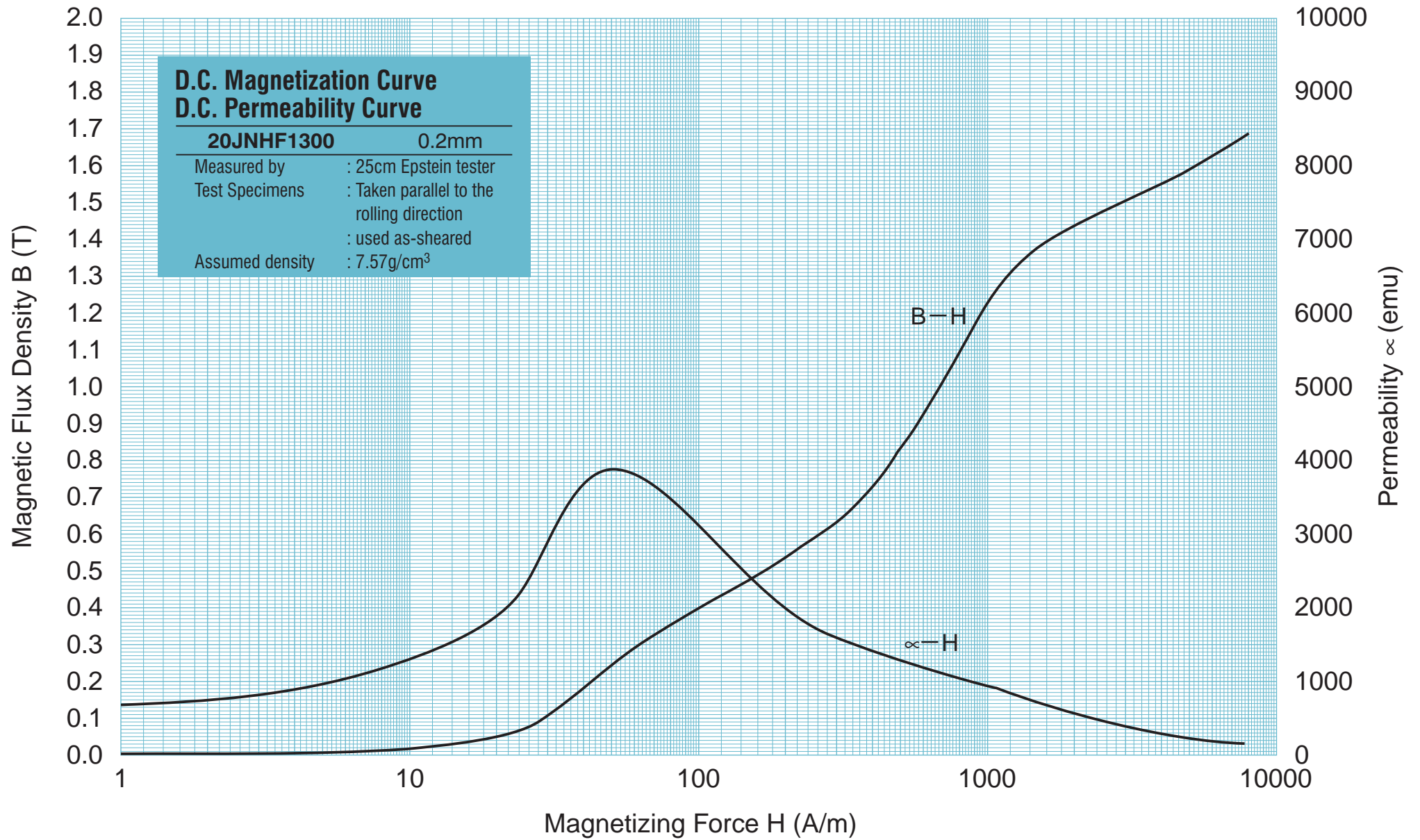


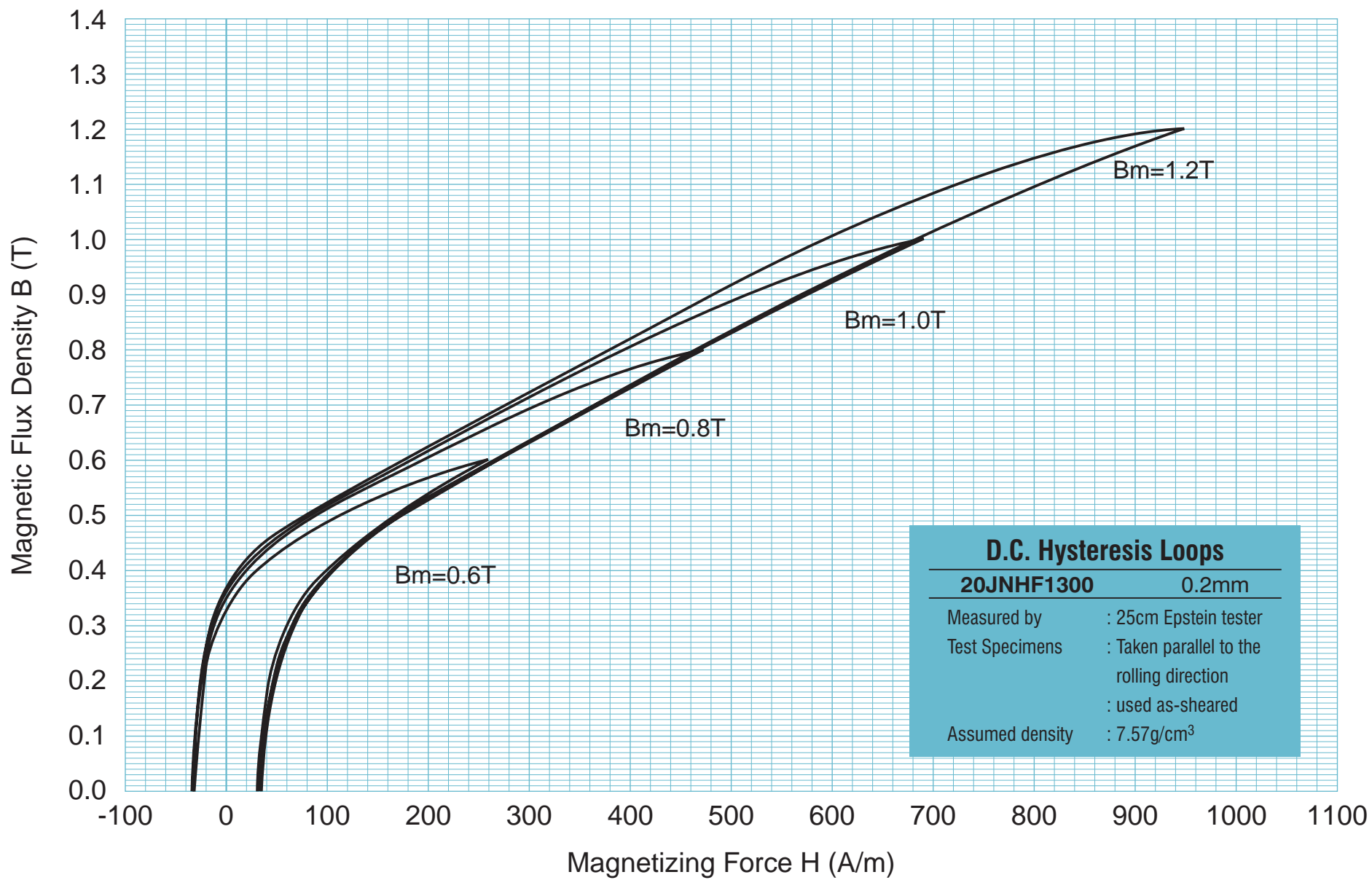


Magnetization Curve	
20JNHF1300	0.2mm
Measured by	: 25cm Epstein tester
Test Specimens	: Taken parallel to the rolling direction
	: used as-sheared
Assumed density	: 7.57g/cm ³









JFE Steel Corporation

TOKYO HEAD OFFICE	Hibiya Kokusai Building, 2-3 Uchisaiwaicho 2-chome, Chiyodaku, Tokyo 100-0011, Japan Phone : 81-(3)3597-3111 Fax : 81-(3)3597-4860
NEW YORK OFFICE	350 Park Avenue, 27th Fl., New York, NY 10022, U.S.A. Phone : 1-(212)310-9320 Fax : 1-(212)308-9292
DETROIT OFFICE	2000 Town Center, Suite 1900, Southfield, MI 48075, U.S.A. Phone : 1-(248)351-6290 Fax : 1-(248)351-6291
HOUSTON OFFICE	10777 Westheimer, Suite 1010 Houston, TX 77042, U.S.A. Phone : 1-713-532-0052 Fax : 1-713-532-0062
VANCOUVER OFFICE	P.O. Box 49168, Three Bentall Centre, 2383-595, BURRARD STREET, VANCOUVER, B.C. V7X 1J1 Phone : 1-(604)-687-0091 Fax : 1-(604)-688-7020
BRAZIL OFFICE	Praia de Botafogo 228, Setor B, Salas 508 & 509, CEP 22359-900, Botafogo Phone : 55-(21)2553-1132 Fax : 55-(21)2553-3430
LONDON OFFICE	8th Floor, International Press Centre, 76 Shoe Lane, London EC4A 3JB, U.K. Phone : 44-20-7583-1133 Fax : 44-20-7583-1144
SINGAPORE OFFICE	16 Raffles Quay, No. 15-03, Hong Leong Building, Singapore 04581 Phone : 65-6220-1174 Fax : 65-6224-8357
MALAYSIA OFFICE	Unit C-13A-5, Block-C, Megan Avenue II, 12, Jalan Yap Kwan Seng, 50450, Kuala Lumpur, Malaysia Phone : 60-3-2164-6618 Fax : 60-3-2164-6695
BANGKOK OFFICE	22nd Floor, Abdulrahim Place 990, Rama IV Road, Bangkok 10500, Thailand Phone : 66-(2)636-1886 Fax : 66-(2)636-1891
JAKARTA OFFICE	15th Floor Summitmas II, Jl Jendral Sudirman Kav. 61-62, Jakarta 12190, Indonesia Phone : 62-(21)522-6405 Fax : 62-(21)522-6408
MANILA OFFICE	23rd Floor 6788 Ayala Avenue, Oledan Square, Makati City, Metro Manila, Philippines Phone : 63-(2)886-7432 Fax : 63-(2)886-7315
SEOUL OFFICE	Room No.1301, Donghwa Bldg., 58-7 Seosomun-dong, Chung-ku, Seoul 100-110, Korea Phone : 82-2-779-8246 Fax : 82-2-779-8958
BEIJING OFFICE	1720, Beijing Fortune Building, Chaoyang District, Beijing 100004, People's Republic of China Phone : 86-10-6590-9051 Fax : 86-10-6590-9056
SHANGHAI OFFICE	Room No.2112, Lippo Plaza, 222 Huai Hai Road(M), Shanghai 200021, People's Republic of China Phone : 86-(21)5396-5610 Fax : 86-(21)5396-5611
HONG KONG OFFICE	2904, 1Exchange Square, 8 Connaught Place, Central, Hong Kong SAR Phone : 85-(2)2537-2176 Fax : 85-(2)2537-5339

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