

Introduction of Fe-Based Amorphous and Nanocrystalline Materials

◎ Fe-Based amorphous band

Fe-based amorphous materia is a new type of metal functional material which is quickly cooled by smelting iron, silicon, boron and other elements. Because of the disordered arrangement of atoms, the amorphous strip has high saturation induction density, low core loss and low coercivity due to the disordered arrangement of atoms and no defect of crystal material, Brand 1K101

» Characteristics

- ▶ High saturation induction and permeability — Reducing size of devices
- ▶ Low core loss — Reducing temperature rise
- ▶ Low magnetostriction — Reducing work noise
- ▶ Low coercivity — Increasing the efficiency of devices
- ▶ Excellent thermal stability — Change of material properties < 15% from -20°C to 120°C

» Performances

Material : 1K101			
Saturation Magnetic Induction, Bs (T)	1.56	Curie Temperature, Tc (°C)	410
Vickers Hardness, Hv (kg/mm ²)	890	Crystallization Temperature, Tx (°C)	510
Density, ρ (g/cm ³)	7.18	Resistivity, δ (μΩ·cm)	130
Mmaximum Magnetic Permeability, μmax	> 20000	Saturation Magnetostrictive Coefficient, λs	27×10 ⁻⁶

» Applications

- ▶ Constant permeable inductor core
- ▶ PFC inductor core
- ▶ Inverter reactor core
- ▶ Distribution transformer core

◎ Fe- based nanocrystalline band

Fe-based nanocrystalline is a kind of nanocrystalline soft magnetic alloy, which is composed of iron, silicon, boron, copper and niobium, which is annealed by proper heat treatment on the basis of amorphous alloy, and has better soft magnetic properties. The production process is simple, convenient and easy to form. It has the advantages of high saturation magnetic induction intensity, high permeability and low loss. Therefore, the manufacturing process and application process of amorphous alloy materials will be energy saving and green energy saving products saving and green energy saving products will be developed in the new century, Brand 1K107

» Characteristics

- ▶ High saturation induction and permeability — Reducing size of devices and copper winding turns
- ▶ Low core loss — Lower than Fe-based amorphous, with lower temperature rise
- ▶ Low magnetostriction — Saturation magnetostrictive coefficient near 0 and lower working noise
- ▶ Low coercivity — low as 1.0A/m (static)
- ▶ Excellent thermal stability — Change of material properties < 15% from -20°C to 120°C
- ▶ Excellent frequency characteristics — Wide frequency characteristics, from 50Hz-200KHz or higher
- ▶ Adjustable magnetic properties — Different types of magnetic properties by different pocess, such as high rectangular ratio, low remanence

» Performances

Material : 1K107			
Saturation Magnetic Induction, Bs (T)	1.25	Curie Temperature, Tc (°C)	570
Vickers Hardness, Hv (kg/mm ²)	890	Crystallization Temperature, Tx (°C)	510
Density, ρ (g/cm ³)	7.25	Resistivity, δ (μΩ·cm)	130
Mmaximum Magnetic Permeability, μmax	> 100000	Saturation Magnetostrictive Coefficient, λs	2×10 ⁻⁶

» Applications

- ▶ EMC common-mode filter inductor core
- ▶ Current transformer core
- ▶ Power transformer core
- ▶ Magnetic amplifier and sensor core

Introduction of Fe-Based Amorphous and Nanocrystalline Materials

◎ The Comparison Between Amorphous and Nanocrystalline Materials and Other Materials is as Follows

Material	Amorphous	Nanocrystalline	Silicon steel	Ferrite	Peomeolloi
Density, ρ (g/cm3)	7.18	7.25	7.65	3.8	8.75
Saturation Magnetic Induction, Bs (T)	1.56	1.25	1.75 ~ 2.2	0.3 ~ 0.7	0.7 ~ 1.6
Initial permeability, μi	5000	80000	2000	3000	40000
Mmaximum Magnetic Permeability, μmax	50000	600000	20000	20000	600000
Vickers Hardness, Hv (kg/mm2)	890	890	180	50 ~ 800	200
Electrical resisticity (μΩ.cm)	120	130	45	500000	60
Curie Temperature, Tc (°C)	410	570	750	220	500
Crystallization Temperature, Tx (°C)	510	510	-	-	-
Saturation Magnetostrictive Coefficient, λs	30x10 ⁻⁶	2x10 ⁻⁶	30x10 ⁻⁶	30x10 ⁻⁶	30x10 ⁻⁶

EMC Common-mode Filter Inductor Core

Nanocrystalline cores have high permeability from 0.1KHz to 20MHz frequency , can be applied to EMC filters and common-mode inductor to suppress common-mode noise under 1KHz-20MHz frequency characteristics. Nanocrystalline core has the advantages of high inductance, good filtering effect, small volume and less turns of copper wire.

» Characteristics

- ▶ High permeability
- ▶ High saturation induction intensity
- ▶ Excellent frequency characteristics
- ▶ A wide range of permeability adjustment
- ▶ Excellent ability to resist unbalance current

» Applications

- ▶ Frequency transformer
- ▶ Electric vehicle charging pile
- ▶ Gas insulated switchgear
- ▶ High energy particle accelerator
- ▶ Switching Mode Power Supply
- ▶ Uninterrupted Power Supply(UPS)
- ▶ EMC filter
- ▶ Wind power generator
- ▶ Inverter air conditioner

» Specifications

■ Common mode inductance (suitable frequency from 10kHz to 300kHz)

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area	Mean path length	AL (μH)	
	od	id	h	OD	ID	H	Ae (cm ²)	Lm (cm)	10kHz, 0.3V	100kHz, 0.3V
HNT12x8x5	12.00	8.00	5.00	14.40	6.50	7.00	0.08	3.10	2.30	6.60
HNT16x10x6	16.00	10.00	6.00	17.90	8.10	8.10	0.14	4.10	31.80	9.10
HNT16x10x8	16.00	10.00	8.00	17.80	8.40	9.90	0.19	4.10	42.40	12.10
HNT19x15x10	19.00	15.00	10.00	21.20	13.50	12.30	0.16	5.30	27.00	7.70
HNT20x12x8	20.00	12.00	8.00	21.70	10.80	9.90	0.25	5.00	45.90	13.10
HNT20x12x10	20.00	12.00	10.00	22.60	10.50	12.50	0.31	5.00	57.40	16.40
HNT21x15x10	21.00	15.00	10.00	23.60	12.80	12.70	0.23	5.70	38.30	10.90
HNT25x16x10	25.00	16.00	10.00	28.00	14.00	13.10	0.35	6.40	50.40	14.40
HNT25x20x10	25.00	20.00	10.00	28.00	17.20	13.20	0.20	7.10	25.50	7.30
HNT26x16x10	26.00	16.00	10.00	28.40	13.90	13.00	0.39	6.60	54.70	15.60
HNT26x19x10	26.00	19.00	10.00	28.30	16.50	12.80	0.30	7.10	35.70	10.20
HNT30x20x10	30.00	20.00	10.00	33.20	17.80	13.30	0.39	7.90	45.90	13.10
HNT30x20x15	30.00	20.00	15.00	33.60	17.80	17.80	0.59	7.90	68.90	19.70
HNT32x20x10	32.00	20.00	10.00	34.40	18.00	13.10	0.47	8.20	53.00	15.10
HNT32x20x15	32.00	20.00	15.00	34.60	17.90	18.20	0.70	8.20	79.50	22.70
HNT40x25x15	40.00	25.00	15.00	43.80	21.60	18.80	0.88	10.20	79.50	22.70
HNT40x32x15	40.00	32.00	15.00	44.90	28.80	18.80	0.47	11.30	38.30	10.90
HNT50x32x20	50.00	32.00	20.00	53.80	28.50	23.80	1.40	12.90	100.80	28.80
HNT50x40x20	50.00	40.00	20.00	53.60	37.10	23.00	0.78	14.10	51.00	14.60
HNT64x40x25	64.00	40.00	25.00	67.40	37.00	29.20	2.34	16.30	132.50	37.80
HNT80x50x20	80.00	50.00	20.00	83.80	46.60	25.00	2.34	20.40	106.00	30.30
HNT80x50x25	80.00	50.00	25.00	84.00	47.00	29.00	2.93	20.40	132.50	37.80
HNT100x80x20	100.00	80.00	20.00	105.00	75.00	25.00	1.56	28.30	51.00	14.60
HNT102x76x25	102.00	76.00	25.00	107.90	70.00	30.30	2.54	27.90	83.80	24.00
HNT130x90x30	130.00	90.00	30.00	135.30	84.90	36.50	4.68	34.50	125.20	35.80
HNT170x120x25	170.00	120.00	25.00	175.00	115.00	30.00	4.88	45.50	99.00	28.30

Note: 1) The range of inductance is from -30% to +50%

2) The above is only partial products. If you need other sizes, please contact us.

EMC Common-Mode Filter Inductor Core

■ Common mode inductance (suitable frequency from 0.1kHz to 10kHz)

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area	Mean path length	AL (μH)	
	od	id	h	OD	ID	H	Ae (cm ²)	Lm (cm)	1kHz, 0.3V	10kHz, 0.3V
HNT12x8x5	12.00	8.00	5.00	14.40	6.50	7.00	0.08	3.10	32.80	2.30
HNT16x10x6	16.00	10.00	6.00	17.90	8.10	8.10	0.14	4.10	45.40	31.80
HNT16x10x8	16.00	10.00	8.00	17.80	8.40	9.90	0.19	4.10	60.60	42.40
HNT19x15x10	19.00	15.00	10.00	21.20	13.50	12.30	0.16	5.30	38.60	27.00
HNT20x12x8	20.00	12.00	8.00	21.70	10.80	9.90	0.25	5.00	65.60	45.90
HNT20x12x10	20.00	12.00	10.00	22.60	10.50	12.50	0.31	5.00	82.00	57.40
HNT21x15x10	21.00	15.00	10.00	23.60	12.80	12.70	0.23	5.70	54.70	38.30
HNT25x16x10	25.00	16.00	10.00	28.00	14.00	13.10	0.35	6.40	36.40	50.40
HNT25x20x10	25.00	20.00	10.00	28.00	17.20	13.20	0.20	7.10	72.00	25.50
HNT26x16x10	26.00	16.00	10.00	28.40	13.90	13.00	0.39	6.60	78.00	54.70
HNT26x19x10	26.00	19.00	10.00	28.30	16.50	12.80	0.30	7.10	51.00	35.70
HNT30x20x10	30.00	20.00	10.00	33.20	17.80	13.30	0.39	7.90	65.60	45.90
HNT30x20x15	30.00	20.00	15.00	33.60	17.80	17.80	0.59	7.90	98.40	68.90
HNT32x20x10	32.00	20.00	10.00	34.40	18.00	13.10	0.47	8.20	75.70	53.00
HNT32x20x15	32.00	20.00	15.00	34.60	17.90	18.20	0.70	8.20	113.50	79.50
HNT40x25x15	40.00	25.00	15.00	43.80	21.60	18.80	0.88	10.20	113.50	79.50
HNT40x32x15	40.00	32.00	15.00	44.90	28.80	18.80	0.47	11.30	54.70	38.30
HNT50x32x20	50.00	32.00	20.00	53.80	28.50	23.80	1.40	12.90	144.00	100.80
HNT50x40x20	50.00	40.00	20.00	53.60	37.10	23.00	0.78	14.10	72.90	51.00

Note : 1) The range of inductance is from -30% to +50%

2) The above is only partial products. If you need other sizes, please contactus.

EMC common-mode filter inductor core

■ Common mode inductance (with clapboard and base)

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area	Mean path length	Remark
	od	id	h	OD	ID	H	Ae (cm ²)	Lm (cm)	
HNT13x8x7	12.70	7.70	6.50	14.90	5.70	8.30	0.14	3.20	no base
HNT16x10x5	16.00	10.00	5.00	18.10	7.90	6.30	0.13	4.08	no base
HNT16x12x8	16.00	12.00	8.00	18.20	10.10	10.80	0.14	4.40	no base
HNT19x13x7	19.00	13.00	6.50	21.40	11.90	8.40	0.17	5.03	no base
HNT20x12x10	20.00	12.00	10.00	22.50	9.70	12.80	0.34	5.03	
HNT21x15x10	21.00	15.00	10.00	24.00	12.50	12.80	0.26	5.65	
HNT23x18x10	23.00	18.00	10.00	26.00	15.40	12.70	0.21	6.44	
HNT25x15x10	25.00	15.00	10.00	28.10	12.40	12.80	0.43	6.28	
HNT26x16x10	26.00	16.00	10.00	28.90	13.50	13.00	0.43	6.60	
HNT26x19x10	26.00	19.00	10.00	29.00	16.10	13.10	0.30	7.07	
HNT28x18x10	28.00	18.00	10.00	31.30	14.90	13.40	0.43	7.23	
HNT30x20x10	30.00	20.00	10.00	34.40	17.80	13.00	0.43	7.85	no base
HNT32x20x10	32.00	20.00	10.00	35.70	16.50	13.20	0.51	8.17	
HNT38x19x15	38.00	19.00	15.00	41.30	15.40	18.50	1.21	8.95	
HNT40x25x20	40.00	25.00	15.00	43.30	21.50	18.40	0.96	10.21	
HNT40x25x25	40.00	25.00	25.00	43.40	21.40	28.60	1.59	10.21	
HNT50x25x20	50.00	32.00	20.00	53.80	21.40	23.50	1.53	12.88	

■ The following core of three-phase box

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area	Mean path length	Remark
	od	id	h	OD	ID	H	Ae (cm ²)	Lm (cm)	
HNT31x19x13	31.00	19.00	13.00	34.50	15.50	15.90	0.66	7.85	
HNT38x19x13	38.00	19.00	13.00	41.70	15.60	16.00	1.05	8.95	
HNT52x36x25	52.00	36.00	25.00	55.60	32.50	28.50	1.70	13.82	
HNT65x40x30	65.00	40.00	25.00	68.50	36.20	28.80	2.66	16.49	

Note: The above is only partial products. If you need other sizes, please contactus.

Current transformer core

Nanocrystalline cores have high magnetic conductivity, high saturation magnetic induction intensity and wider current range. For the transformers with high precision, small measurement error and low turns ratio, they are widely made in the manufacture of precision current transformers and zero-sequence current transformers, which are widely used in electric meters and transformers.

» Characteristics

- ▶ High permeability
- ▶ Low coercivity and core loss
- ▶ Excellent temperature stability
- ▶ Sensitive to weak currents, easy to detect
- ▶ Good cost-effective

» Applications

- ▶ Transformer for leakage protection switch
- ▶ The zero sequence current transformer
- ▶ Gas insulated switchgear
- ▶ High energy particle acc

» Specifications

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area Ae (cm ²)	Mean path length Lm (cm)	AL (μH) 1kHz 0.3V
	od	id	h	OD	ID	H			
HNT10x7x5	10.00	7.00	4.50	12.00	5.00	6.80	0.06	2.67	32.40
HNT13x9x3	12.80	9.50	3.20	14.50	7.90	4.70	0.05	3.50	19.30
HNT13x10x3	13.00	10.00	3.20	14.90	8.50	4.70	0.04	3.61	17.00
HNT13x10x2	13.00	10.00	2.50	15.00	8.60	4.30	0.03	3.61	13.30
HNT14x10x5	14.00	10.00	5.00	15.60	8.50	7.10	0.09	3.77	34.00
HNT17x13x3	17.00	13.00	3.20	19.60	10.40	5.50	0.05	4.71	17.40
HNT18x13x5	17.80	13.00	5.00	19.50	11.50	6.20	0.10	4.84	31.80
HNT19x14x7	19.00	14.00	6.50	21.30	12.50	8.70	0.14	5.18	40.20
HNT19x14x8	19.00	14.00	8.00	22.10	12.40	10.50	0.17	5.18	49.50
HNT25x20x7	25.00	20.00	6.50	27.40	18.20	8.70	0.14	7.07	29.50
HNT25x20x10	25.00	20.00	10.00	27.60	18.20	12.80	0.21	7.07	45.30
HNT34x28x8	34.00	28.00	8.00	36.50	26.10	10.60	0.20	9.74	31.60

Part No.	Core dimension (mm)			Epoxy Coating			Cross section area Ae (cm ²)	Mean path length Lm (cm)	AL (μH) 1kHz 0.3V
	od	id	h	OD	ID	H			
HNT14x9x5	14.00	9.00	5.00	<15.00	>8.00	<6.00	0.11	3.61	44.30
HNT17x12x5	17.40	12.00	5.00	<18.40	>11.00	<6.00	0.11	4.62	37.50
HNT18x13x6	18.50	13.00	6.00	<19.50	>12.00	<7.00	0.14	4.95	42.70
HNT19x14x7	19.00	14.00	6.50	<20.00	>13.00	<7.50	0.14	5.18	40.20

Note: The above is only partial products. If you need other sizes, please contact us.

Power transformer core

The nanocrystalline transformer core has low middle-high frequency loss, high saturation magnetic density and low remanence. By horizontal magnetic treatment on nanocrystalline alloy, lower remanence magnetic core can be obtained

» Characteristics

- ▶ High saturation induction intensity
- ▶ Low coercivity and core loss
- ▶ Excellent temperature stability
- ▶ Low remanence

» Applications

- ▶ Inverter welding power source
- ▶ Uninterruptible power supply
- ▶ Plasma cutting machine
- ▶ Laser power supply, communication power supply
- ▶ Frequency control of motor speed power supply

» Specifications

Part No.	Core dimension (mm)			Case dimension (mm)			Mean path length	Cross section area	Suitable Power
	od	id	h	OD	ID	H	Le (cm)	Ae (cm ²)	Pw (kW)
HNT50x32x20	50.00	32.00	20.00	53.80	28.50	23.80	12.88	1.44	0.7 - 1.5
HNT50x40x20	50.00	40.00	20.00	53.60	37.10	23.00	14.14	0.80	0.5 - 1.2
HNT64x40x20	64.00	40.00	20.00	66.00	37.00	23.00	16.34	1.92	0.7 - 2.0
HNT64x40x25	64.00	40.00	25.00	67.40	37.00	29.20	16.34	2.40	1.0 - 2.5
HNT80x50x20	80.00	50.00	20.00	85.00	44.00	25.00	20.42	2.40	2.0 - 3.0
HNT80x50x25	80.00	50.00	25.00	84.00	47.00	29.00	20.42	3.00	3.0 - 4.0
HNT100x80x20	100.00	80.00	20.00	105.00	75.00	25.00	28.27	1.60	2.0 - 4.0
HNT102x76x25	102.00	76.00	25.00	107.90	70.00	30.30	27.96	2.60	7.0 - 9.0
HNT105x60x30	105.00	60.00	30.00	110.00	57.00	35.00	25.92	5.40	8.0 - 10
HNT120x70x25	120.00	70.00	25.00	125.00	67.00	30.00	29.84	5.00	8.0 - 11
HNT130x80x40	130.00	80.00	40.00	136.00	76.00	45.00	32.99	8.00	15 - 20
HNT130x90x30	130.00	90.00	30.00	135.30	84.90	36.50	34.56	4.80	13 - 18
HNT140x100x25	140.00	100.00	25.00	145.00	95.00	31.00	37.70	4.00	8.0 -14
HNT170x120x25	170.00	120.00	25.00	175.00	115.00	31.00	45.55	5.00	24 - 30
HNT200x160x30	200.00	160.00	30.00	207.00	154.00	36.00	56.55	4.80	30 - 40

Note: The above is only partial products. If you need other sizes, please contactus.

Fe-Based Amorphous Inductor Core

Fe-based amorphous cores have constant permeability and high saturation magnetic induction, which makes the amorphous cores have excellent superposition DC characteristic and frequency characteristic.

And the magnetic permeability can be controlled from 200 to 5000, which suit for the production of PFC inductors for high-frequency and AC or DC superposition of inductors.

» Characteristics

- ▶ High saturation flux density, low loss
- ▶ Excellent resistance to DC bias property
- ▶ Permeability controlled from 200-5000

» Applications

- ▶ PFC corrector inductors
- ▶ Vehicle audio choke coils
- ▶ Differential mode fi

» Specifications

© No gap inductance

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area Ae (cm ²)	Mean path length Lm (cm)	Remark
	od	id	h	OD	ID	H			
HAT12x8x5	12.00	8.00	4.50	14.40	6.50	7.00	0.08	3.14	
HAT15x10x5	15.00	10.00	4.50	16.70	8.40	7.00	0.10	3.93	
HAT16x10x8	16.00	10.00	8.00	17.80	8.40	9.90	0.20	4.08	
HAT18x11x8	18.00	11.00	8.00	20.50	9.30	10.30	0.24	4.56	
HAT18x11x10	18.00	11.00	10.00	20.50	9.40	12.40	0.30	4.56	
HAT20x12x8	20.00	12.00	8.00	22.30	10.20	10.20	0.27	5.03	
HAT20x12x10	20.00	12.00	10.00	22.50	10.30	12.50	0.34	5.03	
HAT26x16x10	26.00	16.00	10.00	28.30	13.80	12.70	0.43	6.60	

© Gap inductance

Part No.	Core dimension (mm)			Case dimension (mm)			Cross section area Ae (cm ²)	Mean path length Lm (cm)	Gap (mm)
	od	id	h	OD	ID	H			
HAGT20x12x8	20.00	12.00	8.00	22.40	10.20	10.60	0.27	5.03	0.2 - 1.5
HAGT20x12x10	20.00	12.00	10.00	22.40	10.20	12.70	0.34	5.03	0.2 - 3.0
HAGT26x16x10	26.00	16.00	10.00	28.80	13.80	12.80	0.43	6.60	0.2 - 5.0
HAGT30x20x10	30.00	20.00	10.00	33.30	18.00	13.30	0.43	7.85	0.2 - 8.0
HAGT32x20x15	32.00	20.00	15.00	34.70	17.80	18.10	0.77	8.17	0.5 - 8.0
HAGT40x25x10	40.00	25.00	10.00	43.00	22.80	13.00	0.64	10.21	1.0 - 12.0
HAGT50x32x15	50.00	32.00	15.00	53.70	28.80	18.50	1.15	12.88	1.0 - 15.0
HAGT50x32x20	50.00	32.00	20.00	53.80	28.70	23.80	1.53	12.88	1.0 - 15.0
HAGT60x30x25	60.00	35.00	25.00	64.10	31.10	29.50	2.66	14.92	1.0 - 15.0
HAGT70x40x25	70.00	40.00	25.00	74.80	35.10	29.70	3.19	17.28	1.0 - 20.0
HAGT80x50x25	80.00	50.00	25.00	85.50	44.80	29.70	3.19	20.42	1.0 - 30.0

Note: Other dimensions and performance can be called for consultation

Amorphous Magnetic Beads

The magnetic bead is used to restrain the high frequency noise and peak interference on the signal line and power line, and it has the ability to absorb the electrostatic pulse, the amorphous beads have the characteristics of high permeability, small volume and high stability.

» Characteristics

- ▶ Small size, high stability
- ▶ Wide frequency range, large impedance

» Applications

- ▶ Power wires
- ▶ For signal lines, such as audio, video lines
- ▶ Network filter

» Specifications

Part No.	Core Dimension (mm)			Finished Dimension (mm)			Cross section area	Mean path length	A _L (μH)
	od	id	h	OD	ID	H	Ae (cm ²)	Lm (cm)	1kHz, 0.3V
HACT4x2x3	4.00	2.00	3.00	< 4.50	> 1.70	< 3.40	0.026	0.94	34.00
HACT4x3x3	4.00	3.00	3.00	< 4.50	> 2.60	< 3.40	0.013	1.10	14.60
HACT6x3x3	6.00	3.00	3.00	< 6.50	> 2.50	< 3.50	0.038	1.41	34.00
HACT6x4x3	6.00	4.00	3.00	< 6.50	> 3.50	< 3.50	0.026	1.57	20.40
HACT7x4x3	7.00	4.00	3.00	< 7.50	> 3.50	< 3.50	0.038	1.73	27.80
HACT8x4x3	8.00	4.00	3.00	< 8.50	> 3.5	< 3.5	0.051	1.88	34.00
HACT8x5x3	8.00	5.00	3.00	< 8.50	> 4.50	< 3.50	0.038	2.04	23.50
HACT9x5x3	9.00	5.00	3.00	< 9.50	> 4.50	< 3.50	0.051	2.20	29.10
HACT10x6x4.2	10.00	6.00	4.20	< 10.50	> 5.50	< 4.70	0.071	2.51	35.70
HACT12x6x4.2	12.00	6.00	4.20	< 12.50	> 5.50	< 4.70	0.107	2.83	47.60

Amorphous U Cores

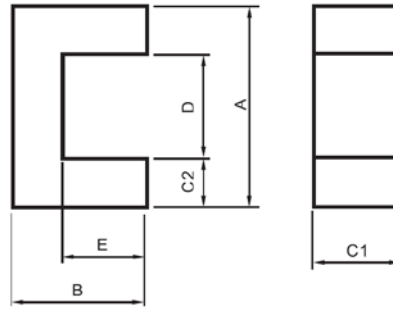
» Characteristics

- ▶ High saturation flux density
- ▶ Low core loss
- ▶ Low coercivity
- ▶ Good temperature stability

» Applications

- ▶ High frequency super switching power supply
- ▶ PV Inverter reactor

» Specifications



Part No.	Core Dimension (mm)						Cross section area	Mean path length	Window area	Mass
	A	B	C1	C2	D	E	Ae (cm ²)	Lm (cm)	Wa (cm ²)	Wt (g)
HAU30x47x40	30.00	23.50	40.00	8.00	14.00	15.50	11.2	2.85	4.30	235
HAU35x72x30	35.00	36.00	30.00	11.00	13.00	25.00	15.7	2.94	6.50	330
HAU41x82x25	41.00	41.00	25.00	13.00	15.00	28.00	17.9	2.89	8.40	371
HAU41x82x30	41.00	41.00	30.00	13.00	15.00	28.00	17.9	3.47	8.40	445
HAU41x82x35	41.00	41.00	35.00	13.00	15.00	28.00	17.9	4.05	8.40	519
HAU52x102x25	52.00	51.00	25.00	16.00	20.00	35.00	22.7	3.56	14.00	574
HAU52x102x40	52.00	51.00	40.00	16.00	20.00	35.00	22.7	5.70	14.00	919
HAU52x102x45	52.00	51.00	45.00	16.00	20.00	35.00	22.7	6.41	14.00	1034
HAU63x121x35	63.00	60.50	35.00	19.00	25.00	41.50	27.2	5.92	20.80	1143
HAU63x121x40	63.00	60.50	40.00	19.00	25.00	41.50	27.2	6.76	20.80	1306

Amorphous Strip

» Characteristics

- ▶ High saturation flux density
- ▶ Low core loss
- ▶ Free combination

» Applications

- ▶ Magnetic surface of medical device
- ▶ High-speed rail power supply

» Specifications

Part No.	Core Dimension (mm)			Wt (g)	Remark
	A	B	C		
HAT50x40x10	50.00 ±1.0	40.00 ±1.0	10.00 ±0.5	235	
HAT50x10x10	50.00 ±1.0	10.00 ±1.0	10.00 ±0.5	330	
HAT80x15x15	80.00 ±1.0	15.00 ±1.0	15.00 ±0.5	371	
HAT100x10x10	100.00 ±2.0	10.00 ±1.0	10.00 ±0.5	445	
HAT100x15x15	100.00 ±2.0	15.00 ±1.0	15.00 ±0.5	519	