

Amorphous choke core with gap

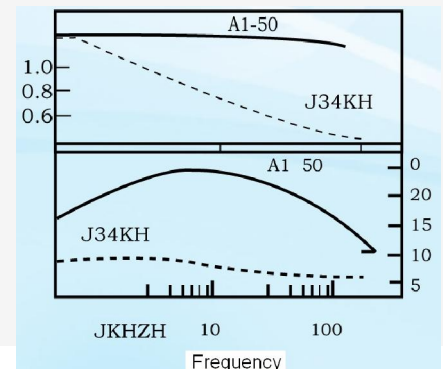
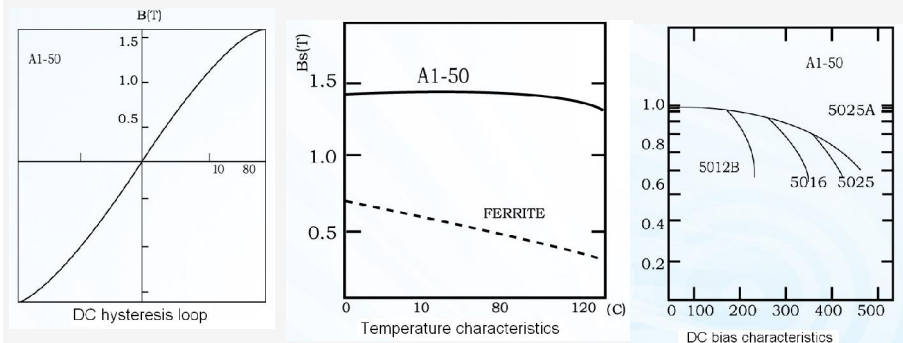
1、Features

- ◇ Wide range of constant bias magnetic field: 0~500e
- ◇ High linear permeability— $\mu = 180\sim 200$
- ◇ Low-High frequency loss
- ◇ Excellent frequency characteristics and temperature characteristics



2、Applications

- ◇ Inverter welding power source—Applied to the power inverter air conditioner、UPS、Switching Power Supply
- ◇ Switching power supply, transformer output filter
- ◇ Differential mode noise filter
- ◇ PFC choke coil



3、Dimension and electrical parameters

TYPE	Core size (mm)			Dimension (mm)			Parameter	
	ID	OD	Ht	ID	OD	Ht	AL(uH)	AL
5012A	12	20	5.0	9.7	22.5	8.0	0.085	180
5012B	12	20	8.0	9.7	22.5	11.0	0.120	180
5016	16	26	10.0	14.3	30.2	13.5	0.132	280
5020	20	32	10.0	17.5	34.5	13.5	0.120	350
5025A	25	40	12.5	23.0	45.0	16.0	0.150	370
5025B	25	40	15.0	23.0	45.0	19.0	0.200	370
5032	32	50	15.0	29.0	55.0	18.0	0.126	470

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5040	40	64	15.0	37.8	67.5	19.0	0.160	600
5050	50	80	20.0	47.0	85.0	24.0	0.200	730
5056	56	92	25.0	53.0	97.02	9.0	0.250	800

4、Winding inductance technical parameters

TYPE	CORE SIZE (mm)	RATE CURRENT :(A)	L:(uH)	AL:(uH)	TURNS:N
5012B	12×20×8.0	3.0	0.115	400	60
		5.0		155	37
		8.0		60	23
		10.0		40	19
5016	16×26×10	3.0	0.133	1000	87
		5.0		300	48
		8.0		155	34
		10.0		100	28
		15.0		45	18
		20.0		25	14
5020	20×32×10	5.0	0.120	505	65
		8.0		255	46
		10.0		165	37
		15.0		75	25
		20.0		45	19
5025(A)	25×40×12.5	5.0	0.140	520	61
		8.0		255	43
		10.0		170	35
		15.0		75	23
		20.0		45	18

5、Physical properties

Proportion	Curie temperature	Crystallization temperature	Magnetic saturation	Resistivity	Extension coefficient
G/cm ³	T _c (°C)	T _x (°C)	B _s (T)	P(Ω—cm)	S(10—6)
7.3	410	530	1.4	130	27