



YN-AT-FJ10 型无气隙 μ 1000 差模滤波电感磁芯系列

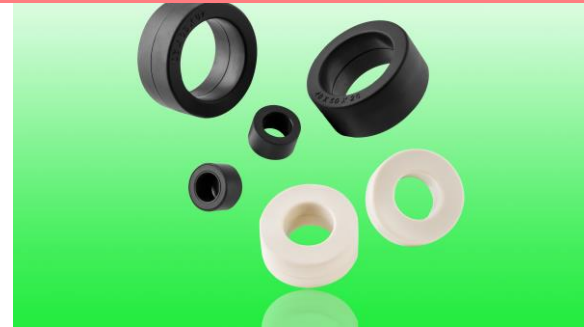
1. 特点

- 1.55 T的高Bs及 μ 800-1200高磁导率
- 良好的偏流特性
- 无气隙磁芯漏磁小
- 优良频率及温度特性
- 低损耗及高Q值

2. 应用

适用于汽车音响及平滑滤波

3. 尺寸及性能



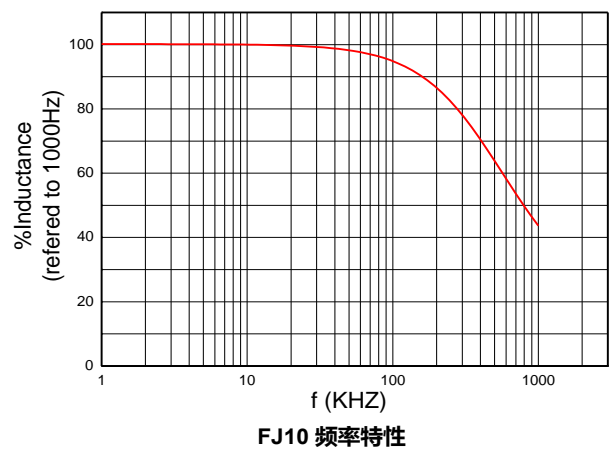
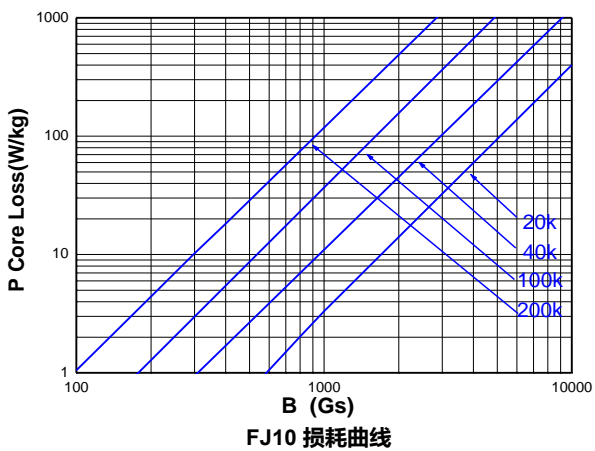
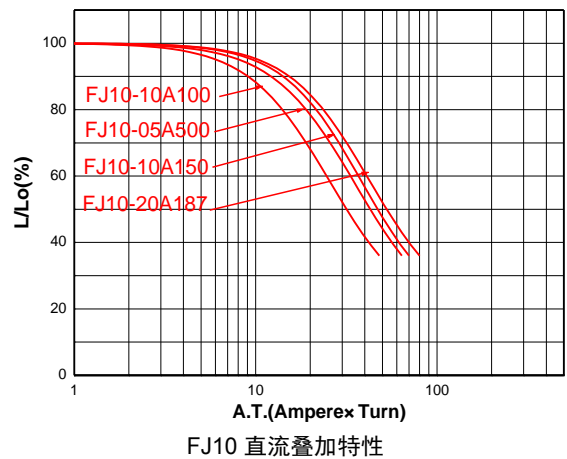
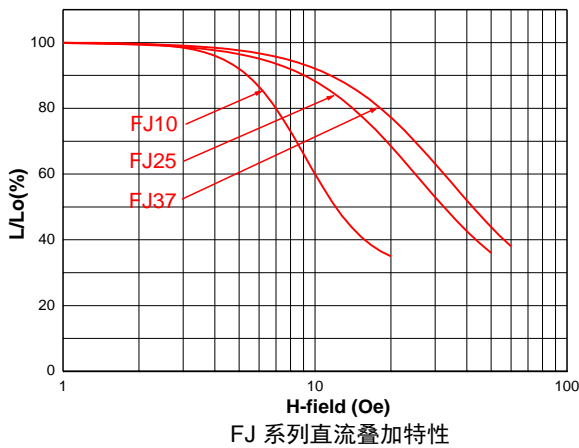
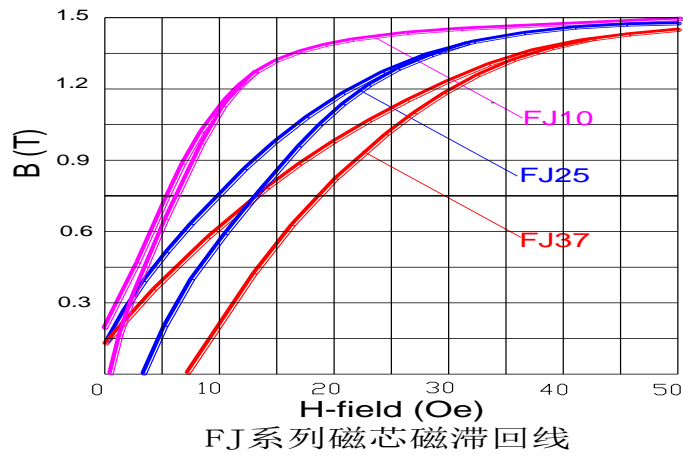
牌号	磁芯尺寸 (mm)	护盒尺寸 (mm)	磁路长 (cm)	电感 Idc=0 (μ H)	偏流 安匝 (A.T)	偏流特性		
						N (T)	Idc rated (A)	Lv min (μ H)
YN-AT-FJ10-120804	Φ 8/12 \times 4.5	Φ 6.3/13.8 \times 6.5	3.14	0.19	38	38	1.0	100
YN-AT-FJ10-160905	Φ 8.5/15.6 \times 5	Φ 7.4/17.0 \times 6.5	3.78	0.22	70	36	2.0	170
YN-AT-FJ10-191005	Φ 10/19 \times 5	Φ 8.1/21 \times 6.7	4.55	0.31	70	35	2.0	200
YN-AT-FJ10-161008A	Φ 10/16 \times 8.0	Φ 8.3/18.2 \times 10.3	4.08	0.85	16	32	0.5	500
YN-AT-FJ10-161008B	Φ 10/16 \times 8.0	Φ 8.3/18.2 \times 10.3	4.08	0.50	20	20	1.0	150
YN-AT-FJ10-181110A	Φ 11/18 \times 8.0	Φ 9.1/20.3 \times 10.2	4.55	0.70	24	24	1.0	250
YN-AT-FJ10-181110B	Φ 11/18 \times 10	Φ 9.1/20.3 \times 12.2	4.55	0.50	20	20	1.0	150
YN-AT-FJ10-181110C	Φ 11/18 \times 10	Φ 9.1/20.3 \times 12.2	4.55	0.57	46	27	1.7	240
YN-AT-FJ10-181110D	Φ 11/18 \times 10	Φ 9.1/20.3 \times 12.2	4.55	0.78	30	30	1.0	350
YN-AT-FJ10-181110E	Φ 11/18 \times 10	Φ 9.1/20.3 \times 12.2	4.55	1.00	23	23	1.0	400
YN-AT-FJ10-201208A	Φ 12/20 \times 8.0	Φ 10.6/21.8 \times 10	5.02	0.64	25	25	1.0	350
YN-AT-FJ10-201208B	Φ 12/20 \times 8.0	Φ 10.6/21.8 \times 10	5.02	0.30	54	27	2.0	187
YN-AT-FJ10-201210	Φ 12/20 \times 10	Φ 10.6/21.8 \times 12	5.02	0.84	31.5	28	1.8	280

- 1) $f = 1$ KHz
- 2) 在额定 DCB 安匝下的电感量
- 3) 额定直流偏流安匝值
- 4) AL 允许偏差: $\pm 20\%$



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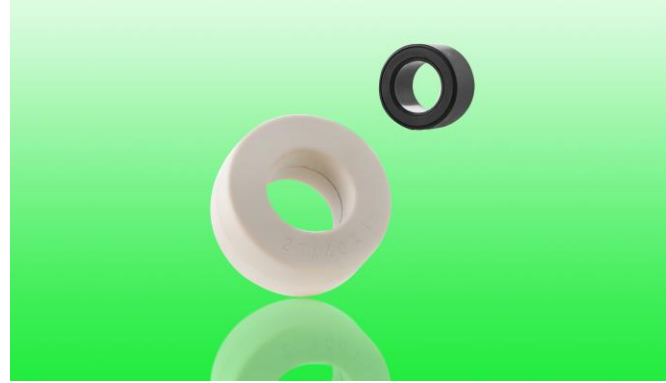
YN-AT-FJ25 型无气隙 μ 400 差模滤波电感磁芯系列

1 特征

- 1.55 T的高Bs及 μ 400 高磁导率
- 良好的25Oe的偏流特性
- 无气隙磁芯漏磁小
- 优良频率及温度特性
- 低损耗及高Q值

2 应用

适用于其它差模、平滑滤波及PFC



3 尺寸及性能

牌号	磁芯尺寸 (mm)	护盒尺寸 (mm)	有效截 面 (mm ²)	磁路长 度 (cm)	电感量 (μ H)	DC bias rated (A.T)
YN-AT-FJ25-100705	Φ 6.5/10 \times 4.5	Φ 5.1/11.2 \times 5.8	5.5	2.59	0.072	50.8
YN-AT-FJ25-141005	Φ 10/14 \times 4.5	Φ 8.6/15.5 \times 7.2	7.0	3.77	0.056	72.0
YN-AT-FJ25-161008	Φ 10/16 \times 8.0	Φ 8.3/18.2 \times 10.3	16.8	4.08	0.141	78.0
YN-AT-FJ25-181110A	Φ 11/18 \times 8.0	Φ 9.1/20.3 \times 10.2	19.2	4.55	0.147	87.0
YN-AT-FJ25-181110B	Φ 11/18 \times 10	Φ 9.1/20.3 \times 12.2	24.5	4.55	0.184	87.0
YN-AT-FJ25-201208	Φ 12/20 \times 8.0	Φ 21.6/10.4 \times 10.	24.5	5.02	0.110	105.0
YN-AT-FJ25-261610	Φ 16/26 \times 10	Φ 14/27.5 \times 12.5	35.0	6.60	0.200	127.0

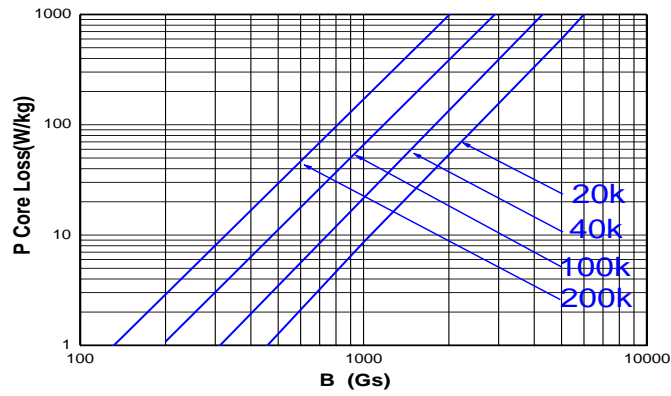
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- 1) $f = 10$ KHz
- 2) AL 允许偏差 $\pm 20\%$
- 3) 额定直流偏流安匝值

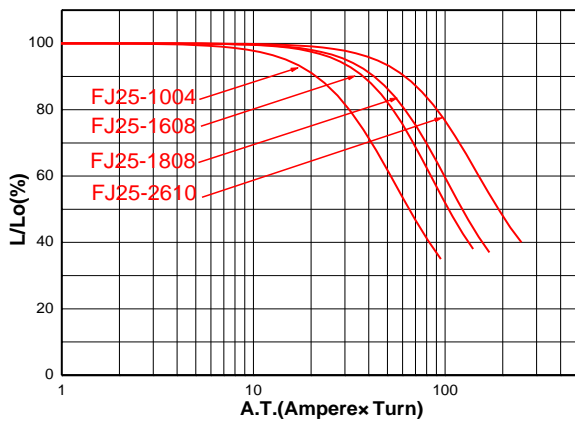


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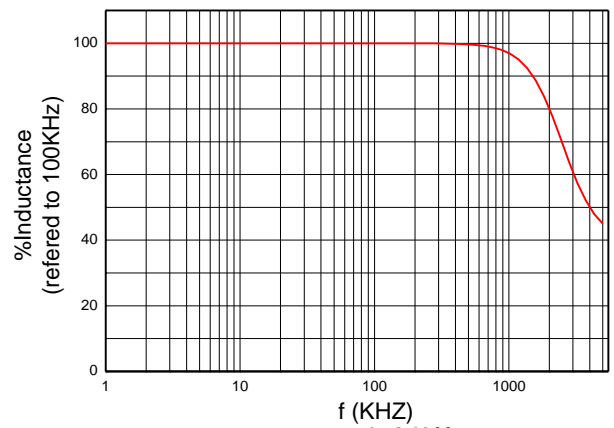
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FJ25 损耗曲线



FJ25 直流叠加特性



FJ25 频率特性



YN-AT-FJ37 型无气隙 μ 250 差模滤波电感磁芯系列

1 特点

- 1.55 T的高Bs及 μ 250 高磁导率
- 良好的25Oe的偏流特性
- 无气隙磁芯漏磁小
- 优良频率及温度特性
- 低损耗及高Q值

2 应用

适用于其它差模、平滑滤波及PFC

3 尺寸及特性

Core Grade	Core Dimension (mm)	Finished Dimension (mm)	Ae (mm ²)	Le (cm)	AL ₀ Idc=0 (μH)	DC Bias Rated (A.T)
YN-AT-FJ37-141005	Φ10/14×5.0	Φ8.6/15.5×7.2	7.0	3.77	0.072	111
YN-AT-FJ37-161008	Φ10/16×8.0	Φ8.3/18.2×10.3	8.4	4.08	0.150	121
YN-AT-FJ37-1811108	Φ11/18×8.0	Φ9.1/20.3×10.2	19.2	4.55	0.130	136
YN-AT-FJ37-1811110	Φ11/18×10	Φ9.1/20.3×12.2	24.5	4.55	0.160	136
YN-AT-FJ37-201008	Φ12/20×8.0	Φ21.6/10.4×10.	24.5	5.02	0.135	145
YN-AT-FJ37-261610	Φ16/26×10	Φ14/27.5×12.5	35.0	6.60	0.150	192
YN-AT-FJ37-322010	Φ20/32×10	Φ17.8/34×12.5	42.0	8.16	0.160	244
YN-AT-FJ37-402513	Φ25/40×12.5	Φ22.5/42.5×15.5	65.7	10.21	0.250	302
YN-AT-FJ37-462720	Φ27/46×20	Φ23/49.5×23.5	133	115	0.368	344
YN-AT-FJ37-462725	Φ27/46×25	Φ23/49.5×29	166	115	0.460	344

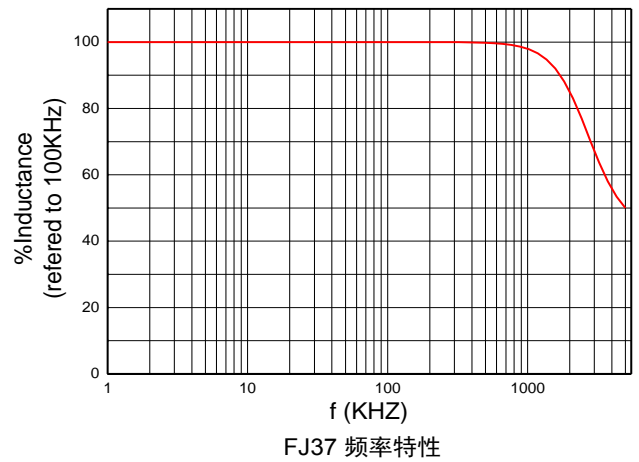
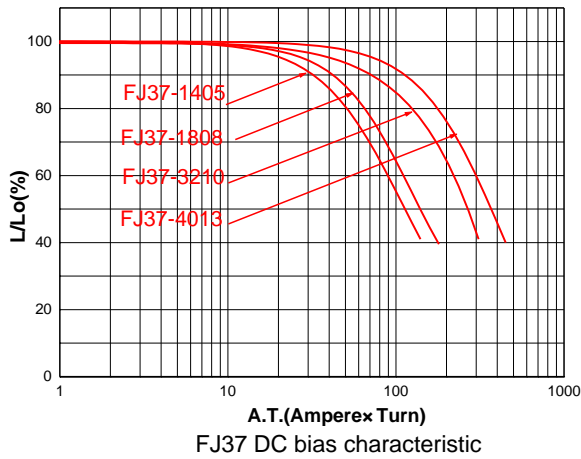
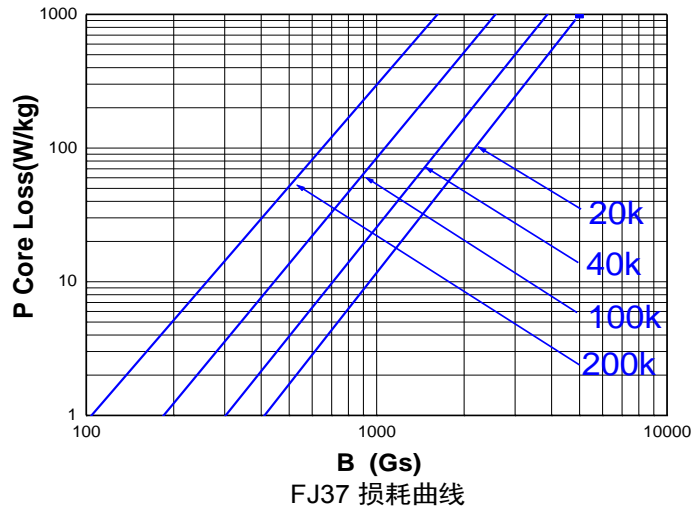
**:

- 1) f = 10 KHz
- 2) AL 允许偏差 ±20%
- 3) 额定直流偏流安匝值



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YN-AT-FG 型环形切口差模滤波电感磁芯系列

1 特点

- 具有高磁导率($\mu=100\sim 200$)及小的矫顽力
- 比 FJ 系列磁芯具有更优的偏流特性
- 料号的频率特性

2 应用

适用于PFC、电抗器及其它大电流滤波电感

3 尺寸及特性

1) FG50 Series

牌号	磁芯尺寸 mm			护盒尺寸 mm			电气参数 (typical)	
	内径 ID	外径 OD	高 H	内径 ID	外径 OD	高 H	AL (μH)	DCB* (AT)
YN-AT-FG50-201208	12.0	20.0	8.0	9.7	22.5	11.0	0.110	180
YN-AT-FG50-261610	16.0	26.0	10.0	14.3	30.2	13.5	0.130	240
YN-AT-FG50-322010	20.0	32.0	10.0	17.5	34.5	13.5	0.140	300
YN-AT-FG50-402513	25.0	40.0	12.5	23.0	45.0	16.0	0.150	360
YN-AT-FG50-402515	25.0	40.0	15.0	23.0	45.0	19.0	0.200	360
YN-AT-FG50-503215	32.0	50.0	15.0	29.0	55.0	18.0	0.200	460
YN-AT-FG50-594020	40.0	59.0	20.0	37.0	63.5	24.0	0.220	600

2) FG100 Series

牌号	磁芯尺寸 mm			护盒尺寸 mm			Electric Parameters (typical)	
	内径 ID	外径 OD	高 H	内径 ID	外径 OD	高 H	AL (μH)	DCB* (AT)
YN-AT-FG100-261610	16.0	26.0	10.0	14.3	30.2	13.5	0.060	520
YN-AT-FG100-322010	20.0	32.0	10.0	17.5	34.5	13.5	0.070	650
YN-AT-FG100-372018	20.0	37.0	18.0	18.0	39.0	19.7	0.095	700
YN-AT-FG100-402513	25.0	40.0	12.5	23.0	45.0	16.0	0.080	800
YN-AT-FG100-402515	25.0	40.0	15.0	23.0	45.0	19.0	0.095	810
YN-AT-FG100-462720	27.0	46.0	20.0	24.5	48.8	23.0	0.155	910
YN-AT-FG100-462725	27.0	46.0	25.0	24.5	48.8	28.0	0.190	900
YN-AT-FG100-503215	32.0	50.0	15.0	29.0	55.0	18.0	0.090	1030
YN-AT-FG100-603525	35.0	60.0	25.0	30.0	65.0	30.0	0.200	1200
YN-AT-FG100-594020	40.0	59.0	20.0	37.0	63.5	24.0	0.100	1250
YN-AT-FG100-644020	40.0	64.0	20.0	37.0	69.0	24.0	0.120	1300
YN-AT-FG100-905520	55.0	90.0	20.0	52.0	93.0	23.0	0.130	1700
YN-AT-FG100-1006020	60.0	100.0	20.0	57.0	103.0	23.0	0.140	2000

- ** 1. 额定直流偏流安匝值
2. AL value $\pm 20\%$



4.绕线电气参数（例）

牌号	磁芯尺寸 (mm)	额定 DC 电流 (A)	电感量 L(μH)	每匝电感量 (μH)	匝数 (Ts)
YN-AT-FG50- 201208	12×20×8.0	3.0	400	0.115	60
		5.0	155		37
		8.0	60		23
		10.0	40		19
YN-AT-FG50- 261610	16×26×10	3.0	1000	0.133	87
		5.0	300		48
		8.0	155		34
		10.0	100		28
		15.0	45		18
YN-AT-FG50- 322010	20×32×10	5.0	505	0.120	65
		8.0	255		46
		10.0	165		37
		15.0	75		25
		20.0	45		19
YN-AT-FG50- 402513	25×40×12.5	5.0	520	0.140	61
		8.0	255		43
		10.0	170		35
		15.0	75		23
		20.0	45		18



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