

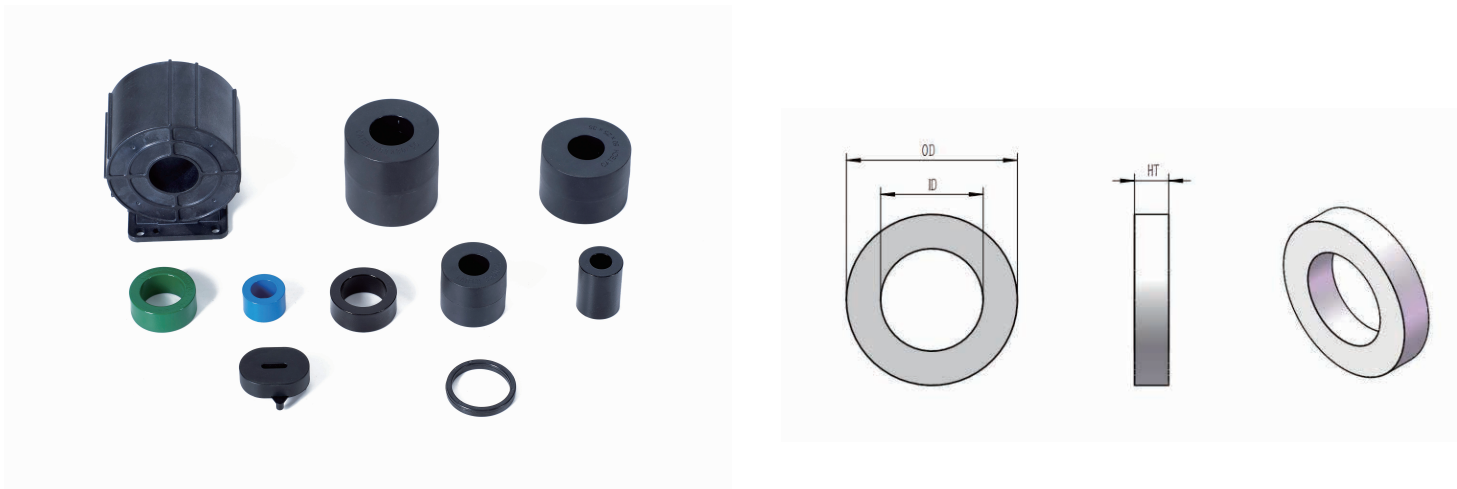
Fe-based Amorphous Core for Filtering Inductor

Application

- Chokes for car audio
- PFC correction inductor
- Differential mode filter and out-put smoother
- DC/DC converter filter coil
- General filter coil and adapter filter coil

Features

- High saturation magnetic induction, low coercivity, low loss
- Excellent in anti-DC bias
- 40~2000 Permeability range 40~2000



	AC/PFC	0001	w	01
Description	AC (without gap) PFC (with gap) Core Series	Serial No.	Encapsulation method: w-white plastic case b-black plastic case, c-coatingt-stainless steel case	Feature No.



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P/N	Bare core dimension (mm)			Finished core dimension (mm)			Cross section area (cm²)	Magnetic path length (cm)	Weight (g)	Permeability (μ)	Rated ampere turns (ref)
	OD	ID	HT	OD	ID	HT	Ae	Le	m	10KHz	AT
AC-0109-c	6	3	3	6.5	2.5	3.5	0.04	1.41	0.39	1600	7
AC-0232-c	6.5	3.5	3.2	7.3	2.7	3.8	0.04	1.57	0.47	1600	7
AC-0036-w	13	8	8	15	6	10	0.17	3.30	4.07	1000	22
AC-0093-w	15	9	5	17.5	7.5	7	0.13	3.77	3.49	300	65
AC-0142-w	15	9.5	8	17	7.5	10	0.19	3.85	5.23	800	36
AC-0091-w	16	10	8	18.5	8	10.5	0.21	4.08	6.05	950	25
AC-0152-w	18	11	8	20.8	8.3	10.7	0.24	4.56	7.88	600	47
AC-0082-w	18	11	10	21	8.3	13	0.30	4.56	9.84	300	85
AC-0167-w	20	10	5	24	7.5	7.5	0.22	4.71	7.27	1050	26
AC-0163-w	20	12	10	23	10.2	12.6	0.34	5.03	12.42	800	41
AC-0014-w	22	13	10	26	9.5	14	0.39	5.50	15.28	170	200
AC-0181-b	28	16	25	33	12	29	1.29	6.91	64	600	70
TSAC-0218-w	28	19	12	30.5	16.5	13.5	0.46	7.38	25	550	110
AC-0240-b	35	20	30	39	17	34	1.94	8.64	120	400	130
AC-0225-c	37	25.5	15	38.5	24	16.2	0.74	9.82	52	250	220
AC-0259-b	40	25	15	44	21	19	0.97	10.21	71	550	110
AC-0154-b	50	32	20	54	27.5	24	1.55	12.88	143	250	300
AC-0062-b	58	38	20	62.5	34	24	1.72	15.08	186	5000	17
AC-0260	120	30	40	123	28	43	15.48	23.56	2619	400	250
AC-0256	150	40	40	153	37	42	18.92	29.85	4054	600	500
AC-0203-b	160	130	25	165.5	124.5	30.5	3.23	45.55	1055	4000	65
PFC-0011-w	18	11	10	21	9	13	0.30	4.56	10	100	290
PFC-0054-w	25	15	10	28	13	13	0.43	6.28	19	100	400
PFC-0009-b	26	16	10	29	14	13	0.43	6.60	20	100	420
PFC-0131-w	26	16	10	29	14	13	0.43	6.60	20	100	420
PFC-0030-b	30	20	15	35	17	18	0.65	7.85	36	100	500
PFC-0019-b	40	25	15	44	21	19	0.97	10.21	71	100	650
PFC-0027-b	40	25	10	45	21	13	0.65	10.21	47	100	650
PFC-0043-b-02	46	27	20	50	23	23	1.63	11.47	135	210	348
PFC-0020-b	50	32	15	53	28	19	1.16	12.88	107	100	820
PFC-0003-b	50	32	20	54	28	24	1.55	12.88	143	100	820
PFC-0128-b	58	38	20	63	34	24	1.72	15.08	186	100	960
PFC-0143-b	60	32	25	65	30	30	3.01	14.45	312	100	920
PFC-0146-b-02	64	40	20	68	36	25	2.06	16.34	242	120	867
PFC-0130-b	68	40	25	73	34	31	3.01	16.96	367	120	900
PFC-0061-b	70	40	25	74	37	29	3.23	17.28	400	100	1100
PFC-0004-b	80	50	25	84	47	29	3.23	20.42	473	100	1300
PFC-0002-b-03	80	50	40	85	46	45	5.16	20.42	757	100	1300
PFC-0017-b-02	100	60	20	105	53	27	3.44	25.13	621	120	1311
PFC-0210	100	50	40	102	48	42	8.60	23.56	1455	100	1500
PFC-0038	120	82	100	122	80	102	16.34	31.73	3723	160	1303
PFC-0127	123	80	130	125	78	132	24.04	31.89	5503	60	3383

*The provided data is for customer's initial design guidelines only, please check the approval data sheet before ordering. *Toroidal, Oval, Clamp Shape or other customized designs are available.

Typical magnetic performance curve for AC/PFC cores

图一：铁基非晶铁芯磁导率直流偏置曲线

Fig.1 Fe-based Amorphous Choke cores Permeability vs DC Bias Curves

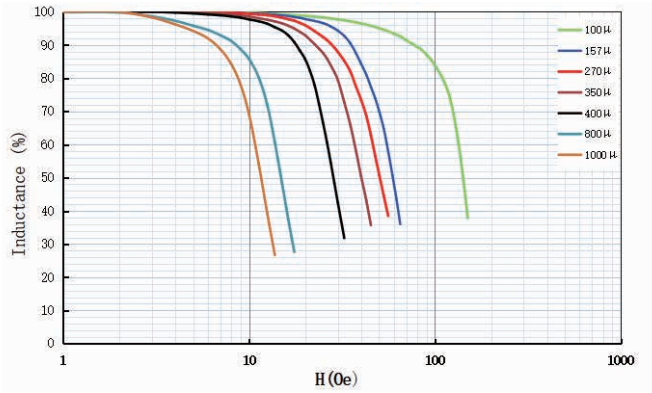


Fig.2 Frequency response of the permeability

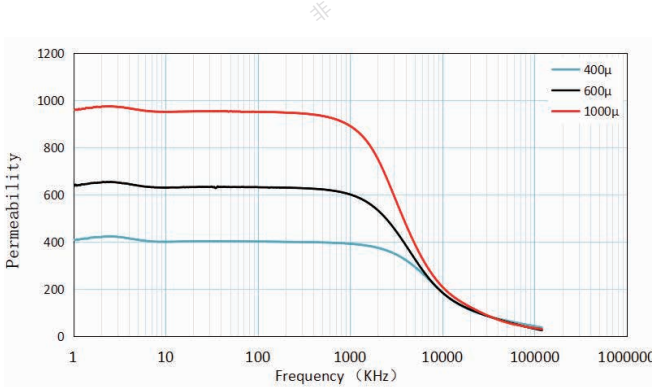
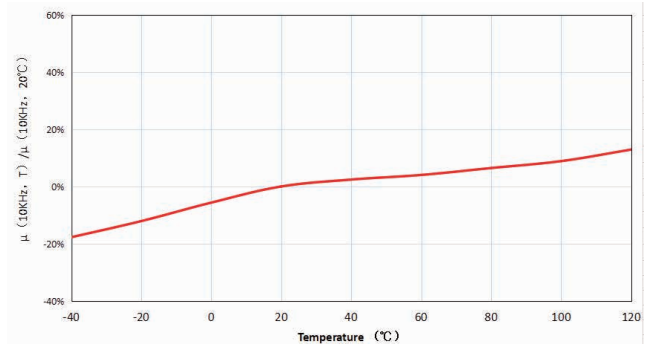


Fig.3 Realitive change of μ vs temperature



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