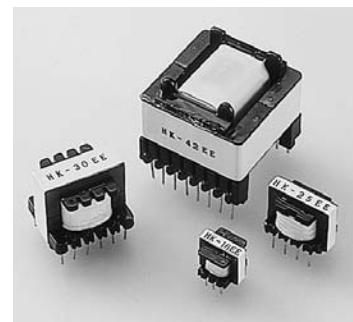


タクロンHKコイル TAKRON HK COIL

EE型シリーズ EE SERIES

—高周波スイッチング電源用多回路チョークコイル—

—Multi-Circuit Choke Coil for High Frequency Switching Mode Power Supply—



特長 FEATURES

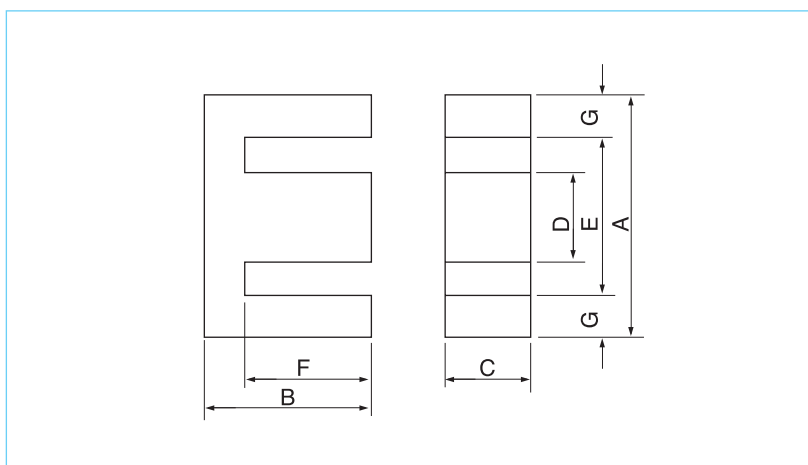
- | | |
|--|---|
| <ul style="list-style-type: none"> (1) 多回路チョークコイルの製作が容易です。 (2) トロイダルに比べ、高いインダクタンスのコイルを製作可能です。 (3) 実装性に優れています。 | <ul style="list-style-type: none"> (1) Multi-circuit choke coils are easily made. (2) Higher inductance coils than toroids are available. (3) Excellent mountability |
|--|---|

用途 APPLICATIONS

- | | |
|--|--|
| <ul style="list-style-type: none"> (1) 高周波のスイッチング電源用チョークコイル (2) 多回路のチョークコイル (3) アクティブフィルタ用チョークコイル (4) フライバックトランス | <ul style="list-style-type: none"> (1) Choke Coils for High Frequency S.M.P.S. (2) Multi-circuit Choke coils (3) Choke Coils for Active Filters (4) Flyback Transformers |
|--|--|

コア寸法 CORE DIMENSION

品名 Part No.	コア寸法/Dimensions (mm)						
	A	B	C	D	E	F	G
HK-16E	16.0	7.1	5.0	4.1	11.8 min.	5.2	2.1
HK-25E	24.6	9.8	6.0	6.0	16.0 min.	5.5	4.3
HK-30E	30.2	13.4	11.0	10.8	20.0 min.	8.1	5.1
HK-35E	35.3	15.0	10.0	10.1	24.5 min.	9.1	5.1
HK-42E	42.0	21.0	19.8	11.9	29.5 min.	15.5	5.5



○その他のコア寸法、形状も承ります。
○Other core shapes and dimensions are available.

コア仕様

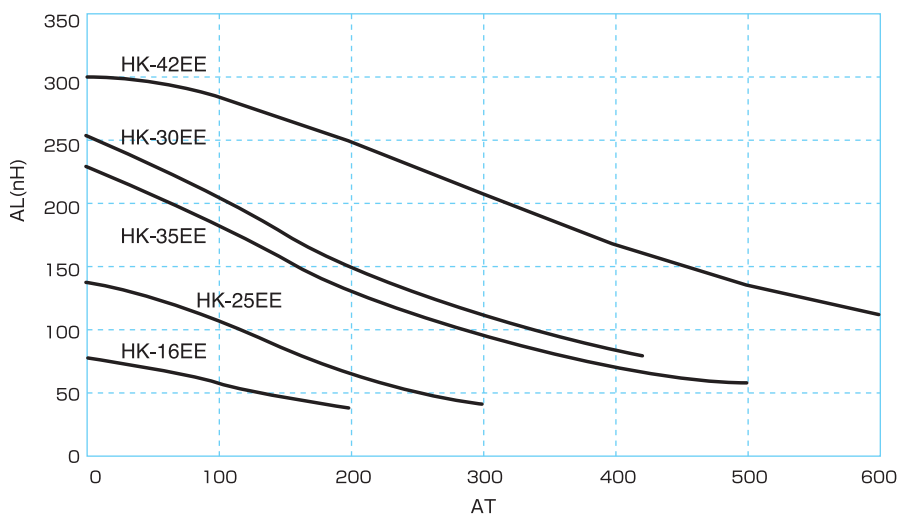
CORE SPECIFICATIONS

品名 Part Number	AL値(※1) AL Values nH/Turn	実効磁路長 Effective Path Length le (cm)	実効断面積 Effective Cross Sectional Area Ae (cm ²)	実効体積 Effective Volume Ve (cm ³)	窓枠面積 Winding Area Acw (cm ²)	重量(組) Set Weight (g)	使用ボビン (代表例) Applicable Bobbin
HK-16E	77	3.404	0.209	0.711	0.224	4	EI16-10PN
HK-25E	129	4.350	0.445	1.936	0.190	13	FFPT-22/19
HK-30E	253	5.780	1.165	6.734	0.400	41	FFPT-30
HK-35E	197	6.810	1.070	7.287	0.857	45	FFPT-35 EIB-35-12PN
HK-42E	300	9.790	2.323	22.742	1.974	136	EB4220-PI116F

※1 測定周波数 100kHz ※1 Measured at 100kHz

直流重畳特性

D.C. BIAS CHARACTERISTICS (AL-AT)



最大巻きコイル仕様

COIL CHARACTERISTICS AT MAXIMUM TURNS

ご希望の仕様で、巻線加工を承ります。/Custom winding is available

線径/Wire diameter (mmφ)
L /Inductance (μH)
D.C.R./Direct current resistance (mΩ)

品名/Part No.	線径/Wire Diameter	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.80
HK-16EE	巻数/Turns	152.5	110.5	82.5	58.5	52.5	47.5	33.5	31.5	27.5	15.5
	L	1800	940	530	270	210	170	90	80	60	20
	D.C.R.	1200	610	350	190	140	110	70	50	40	20
HK-25EE	巻数/Turns		146.5	128.5	111.5	86.5	66.5	60.5	43.5	40.5	25.5
	L		3100	2300	1800	1000	570	510	260	230	90
	D.C.R.		1100	720	500	310	200	160	90	80	40
HK-30EE	巻数/Turns			172.5	154.5	113.5	83.5	77.5	50.5	49.5	28.5
	L			7200	5900	3100	1800	1500	590	580	180
	D.C.R.			1400	1100	590	360	280	160	130	60
品名/Part No.	線径/Wire Diameter			0.60	0.65	0.70	0.80	0.90	1.00	1.10	1.20
HK-35EE	巻数/Turns			187.5	152.5	116.5	86.5	75.5	52.5	47.5	40.5
	L			7400	5100	2900	1600	1200	590	500	320
	D.C.R.			750	500	320	190	130	70	60	40
HK-42EE	巻数/Turns			361.0	301.0	271.0	191.0	151.0	121.0	91.0	71.0
	L			39000	26000	22000	11000	6600	4200	2400	1500
	D.C.R.			2100	1400	1200	590	380	240	150	100

設計用の参考値です。/Referential data for Designing.

品名 Part No.	定格電流 Rated Current I _{dc} (A)	インダクタンス/Inductance 代表値/Typical (μ H)		直流抵抗 D.C. Resistance max. (m Ω)	線径 Wire Diameter (mm)	形状 Shape
		I _{dc} =0A	定格電流 Rated Current			
HK-16EE030-1420	0.5	1,400	1,200	1,200	0.3	fig.1
HK-16EE040-4010	1.0	400	320	350	0.4	
HK-16EE060-7000	2.5	70	50	70	0.6	
HK-25EE050-9010	1.5	900	540	350	0.5	fig.2
HK-25EE070-2010	3.0	200	120	85	0.7	
HK-25EE080-8000	5.0	80	48	40	0.8	
HK-30EE050-3220	1.0	3,300	2,500	660	0.5	fig.3
HK-30EE070-6010	2.5	600	430	150	0.7	
HK-30EE100-1110	6.0	110	85	35	1.0	
HK-35EE070-2920	2.0	2,900	1,500	320	0.7	fig.4
HK-35EE100-5610	4.0	560	300	70	1.0	
HK-35EE120-3210	6.0	320	160	40	1.2	
HK-42EE070-2230H	1.0	22,000	12,000	1,200	0.7	fig.5
HK-42EE100-4220H	2.5	4,200	2,400	240	1.0	
HK-42EE120-1520H	4.0	1,500	870	100	1.2	

コイル形状

COIL SHAPES

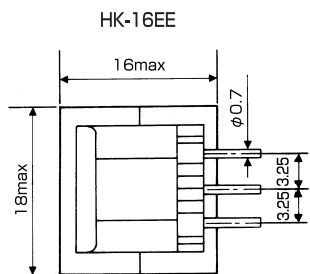


fig.1

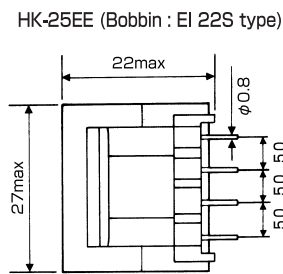
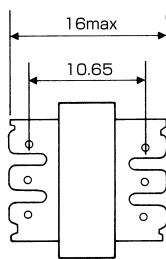


fig.2

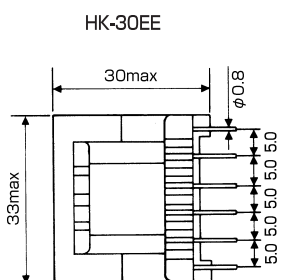
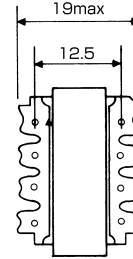


fig.3

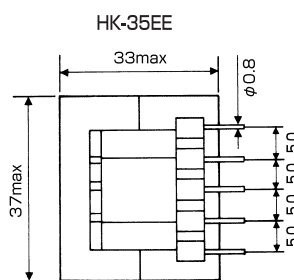
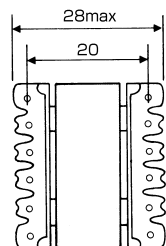


fig.4

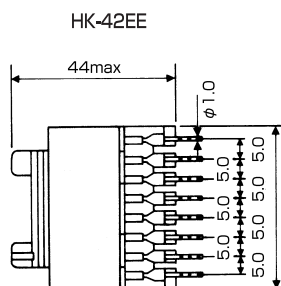
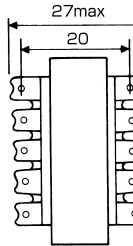
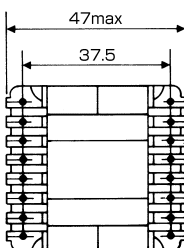
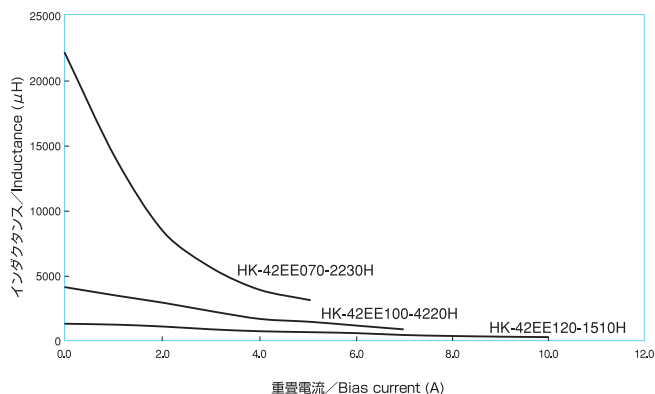
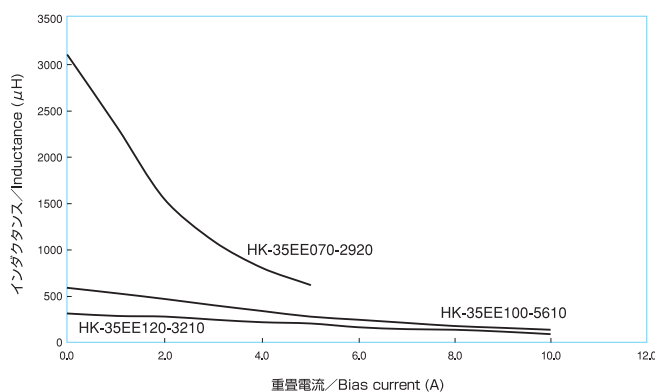
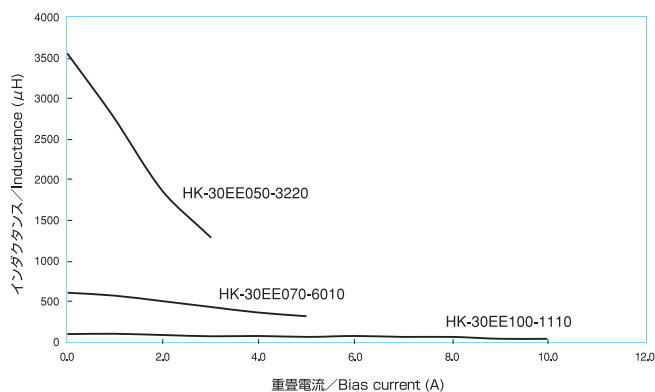
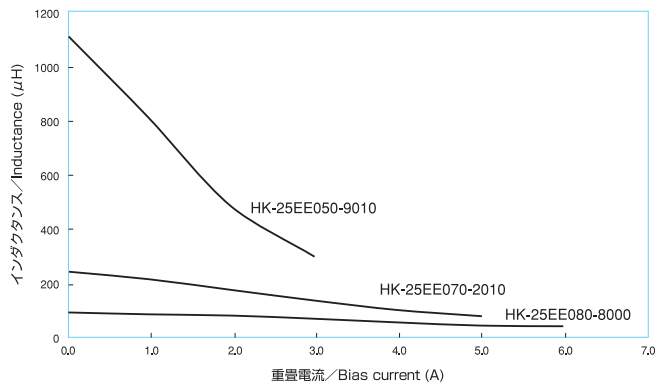
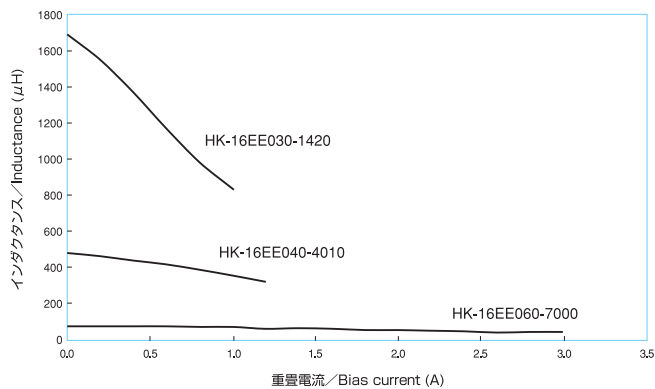


fig.5





電気的特性 ELECTRICAL CHARACTERISTICS

絶縁抵抗 Insulation Resistance	DC500V 100MΩ以上 (コア~リード間) Min100MΩ at DC500V (between core~lead)
絶縁耐圧 Withstand Voltage	AC500V 1分間 (コア~リード間) 1 minute (between core~lead)
許容温度 Allowable Temperature	120℃電線表面温度 Upper wire Surface Temp.
耐熱区分 Heat Resistance Class	120℃ (E種相当) E Class

品名の構成 PART NUMBER DESIGNATIONS

HK-25EE 050-701 0

① ② ③ ④ ⑤

- ① コア材質 / Core material
- ② コアサイズ / Core size
- ③ 使用線径 / Wire diameter (0.5mm φ)
- ④ インダクタンス / Inductance (700 μH)
- ⑤ 製品管理No. / Product control No.