

珠海市金竹電子有限公司
Goldenbamboo Electronics (Zhuhai) Co.,Ltd.



珠海市金竹電子有限公司
Goldenbamboo Electronics (Zhuhai) Co.,Ltd.

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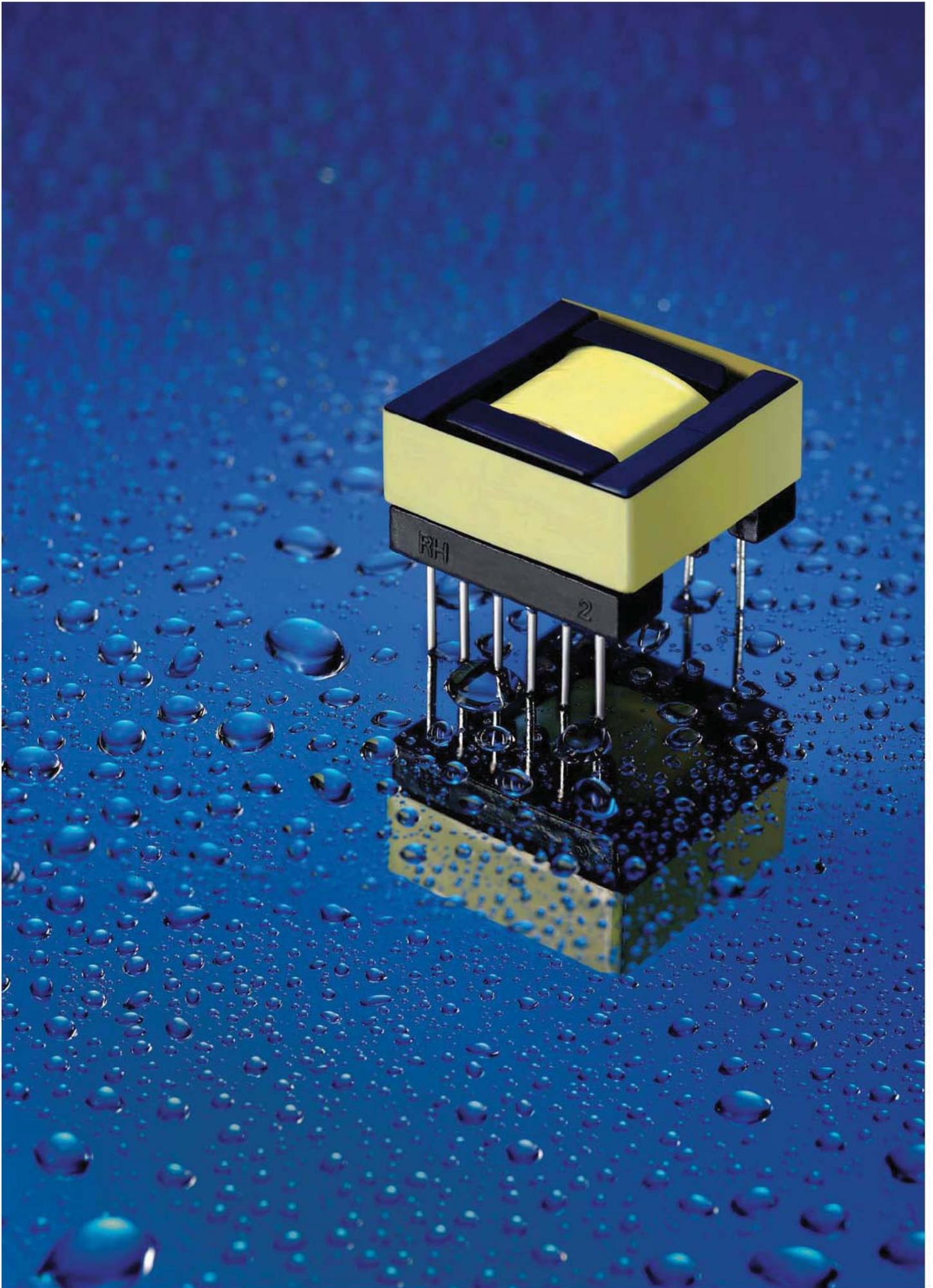
I've been in your core
我的心一直在你心裡



RoHS Compliance
符合RoHS環保標準

I've been in your core
我的心一直在你芯裡





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Company Profile

公司簡介



Established in January 1994, Goldenbamboo Electronics (Zhuhai) Co.,Ltd focuses on the development, manufacture and export of Inductive components, which including DC-motor EMI inductors, Switching power supply transformers ,High-current power inductors as well as the sensor coils and air coils.

Our products are widely used in all kinds of electronic devices in the areas of electrical system, consumer, automotive and industrial electronics.

Goldenbamboo always puts the product development and quality in the first place. Since the foundation, we have built our own technical team and quality system, which can guarantee an advantage at the respect of developing new products and continuing high quality control, so as to meet various requirements from our customers.

Utilizing state-of-the-art fully automated production equipment and advanced testing instrument we can meet your high-precision requirements easily. Volume orders are expedited at our modern ISO 9001-certificated factory, which equipped with 15 production lines and operated by hundreds of skillful workers.

We look forward to building a partnering and mutually beneficial business relationship with customers all over the world.

珠海市金竹電子有限公司成立於一九九四年一月，是一家集開發和生產直流馬達濾波電感、高頻變壓器、功率電感、以及各類型空芯線圈的專業廠家。產品廣泛應用到汽車工業、電力系統、電腦、工業設備以及各類消費電子。

自成立以來，我們始終將產品品質放在首位，同時不斷引進世界先進的生產及檢測設備，以適應各種高要求的應用領域。公司擁有一支專業的研發團隊，確保我們在新產品開發方面的優勢及可持續發展。

我們本著客戶滿意、品質第一，誠信務實的經營理念，全面依照ISO9001及其它國際管理標準運作，不斷提高工作效率和產品品質，更注重客戶的需求，力圖在品質和技術上不斷革新進取，以回饋各業界的愛護與支持。





Bamboo

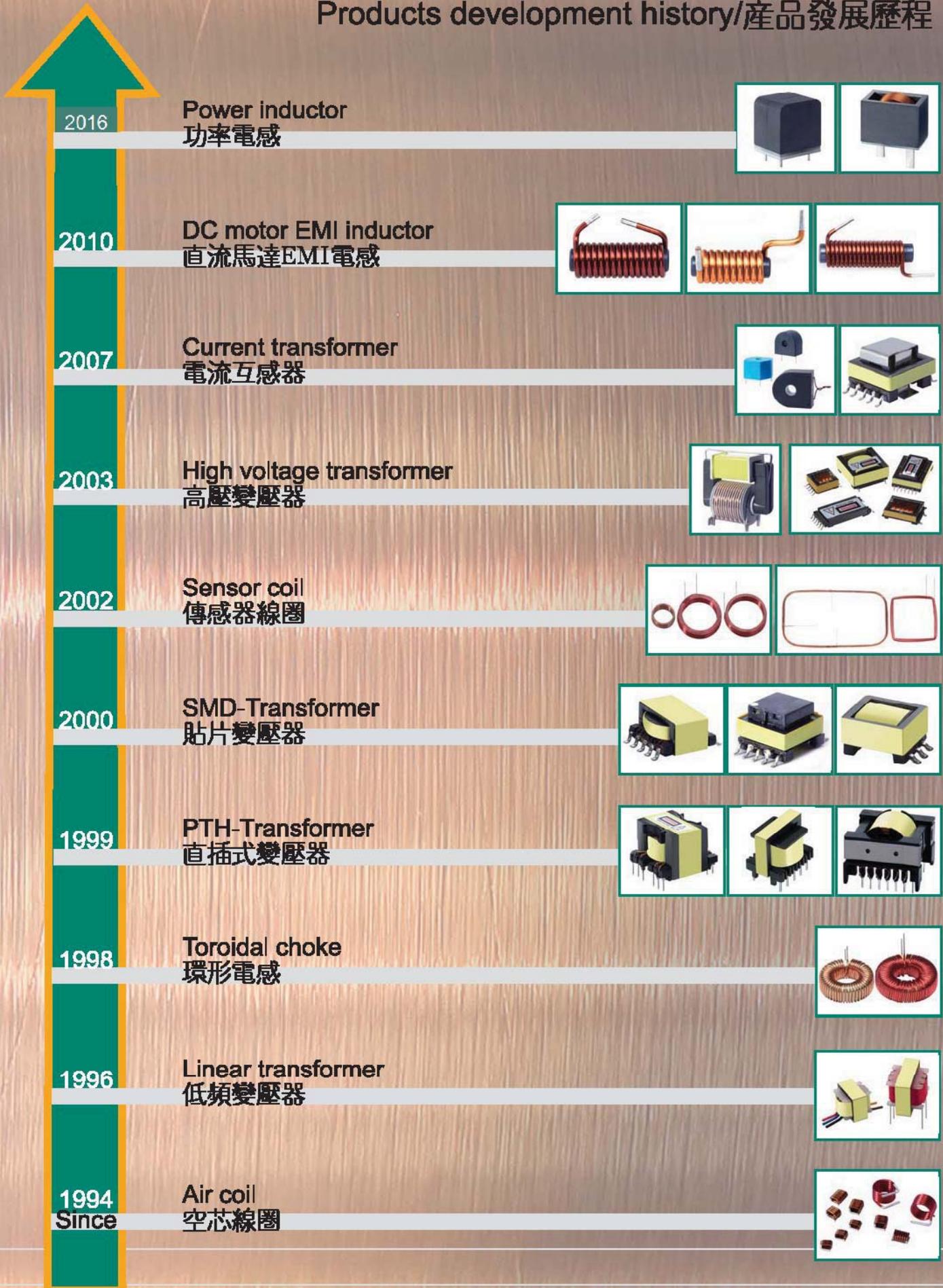
Quality assured/質量保證

- ◆ A professional development team / 專業的研發隊伍
- ◆ Total quality control systems / 全面質量管控系統
- ◆ High quality raw materials / 優質的原材料
- ◆ State-of-the-art production equipment / 高水準的生產設備
- ◆ Advanced testing instruments / 先進的檢測設備
- ◆ Excellent ERP management system / 完善的企業資源管理系統



I've been in your core 我的心一直在你芯裡

Products development history/產品發展歷程

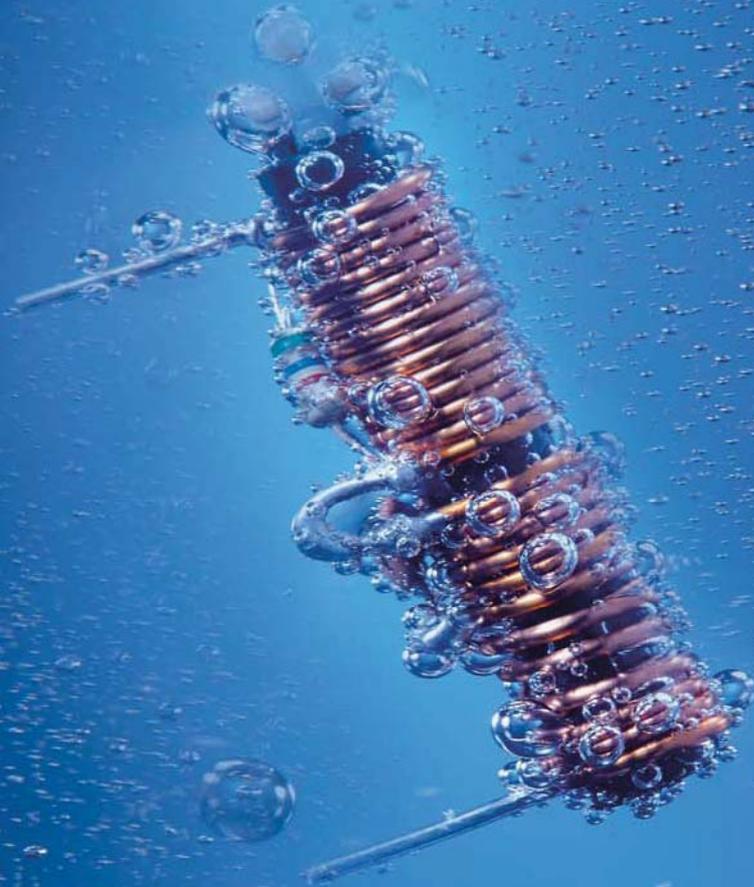


The development of inductive components stimulates
the innovation of electronic technology and makes it possible
磁性元件的發展，促進了電子技術的革新並使其成爲可能

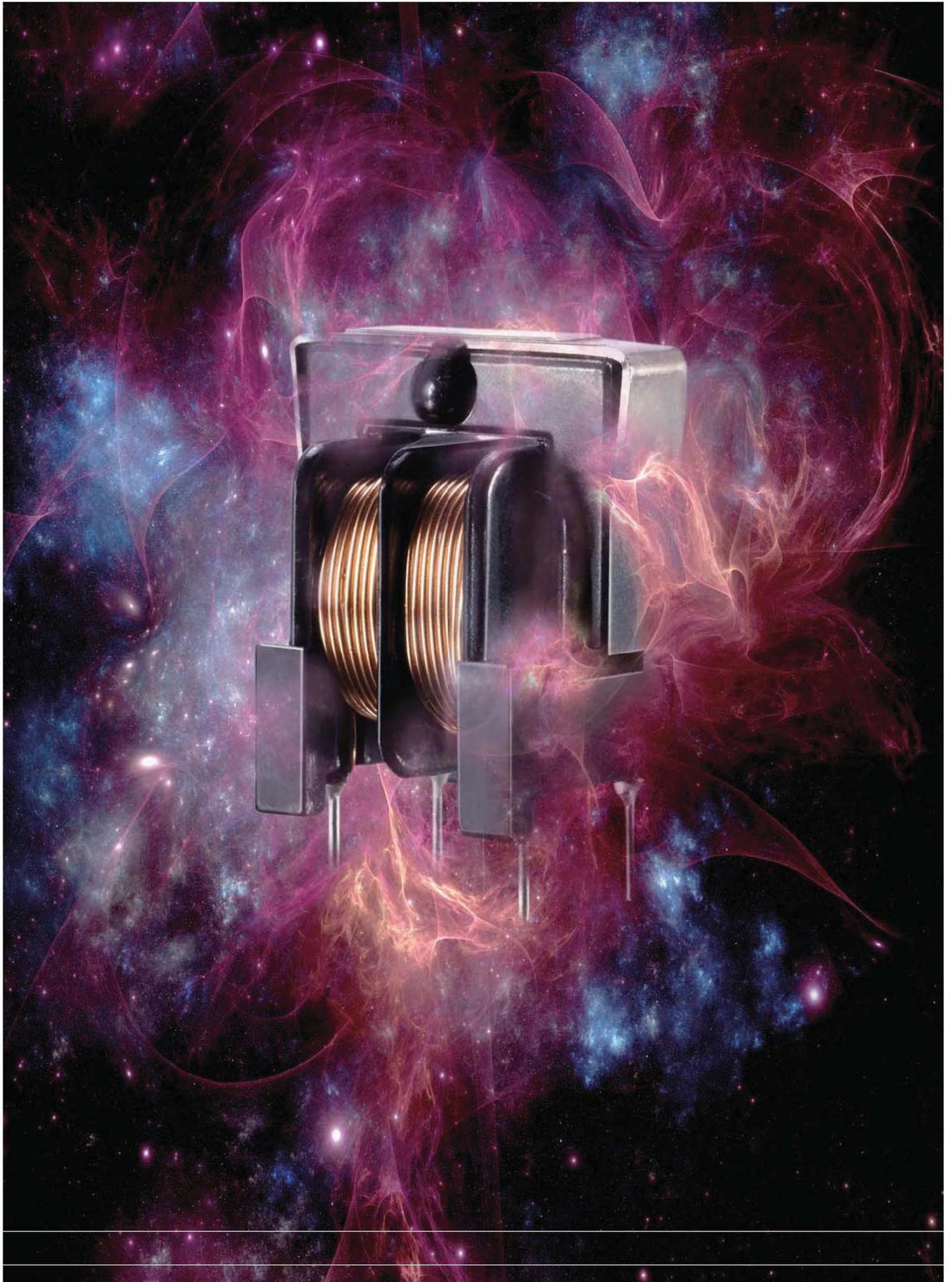


I've been in your core 我的心一直在你芯裡

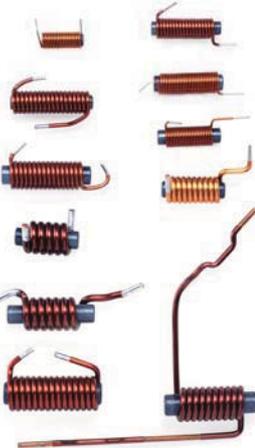
Operation conditions: $-40\text{ }^{\circ}\text{C}\sim 220\text{ }^{\circ}\text{C}$
工作溫度範圍: $-40\text{ }^{\circ}\text{C}\sim 220\text{ }^{\circ}\text{C}$



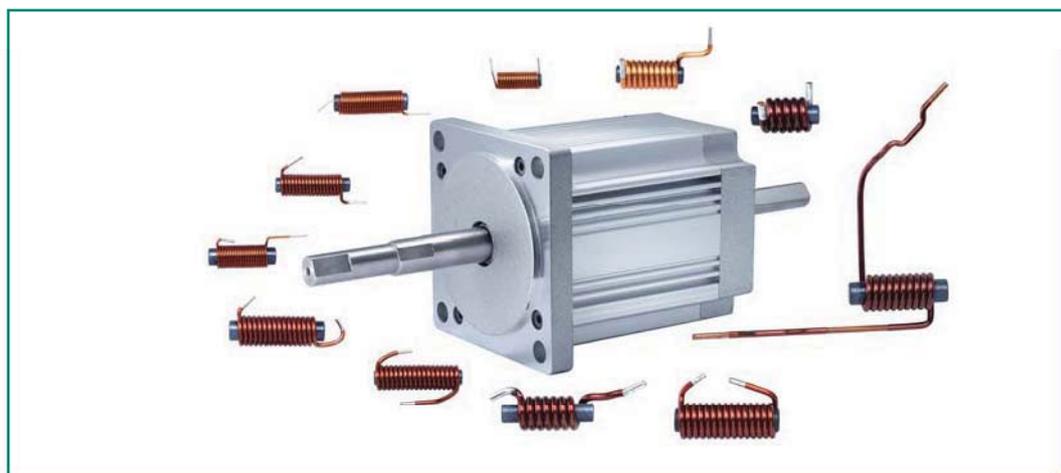
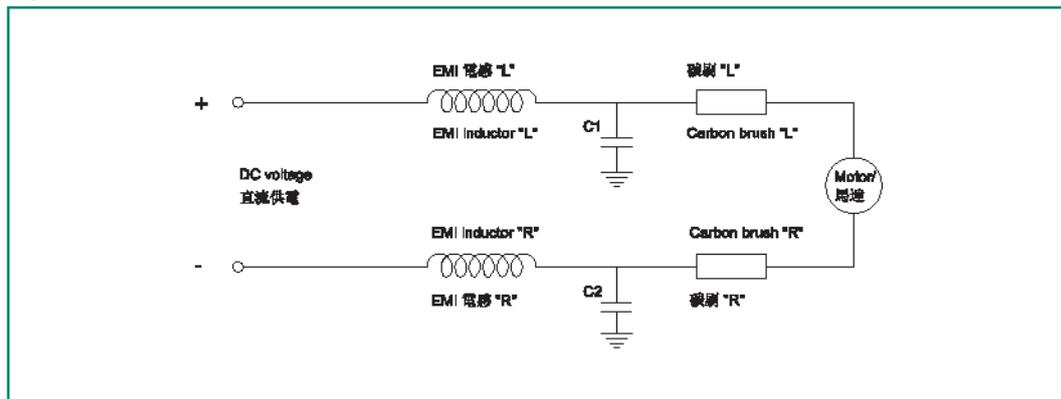
I've been in your core 我的心一直在你心裡



DC motor EMI inductor/直流馬達EMI電感

	<p>Core shape: R Type</p> <p>Features:</p> <ul style="list-style-type: none"> • Design for DC motors • EMI Noise suppression • High saturation current • Operating temperature: -40°C~220°C • Special terminals bending for various DC motors • RoHS Compliance <p>Applications:</p> <ul style="list-style-type: none"> • Various DC motors • Automotive industry 	<p>磁芯形狀: R型</p> <p>特性:</p> <ul style="list-style-type: none"> • 專為直流馬達設計 • 抑制電磁干擾 (噪聲) • 高飽和電流 • 工作溫度: -40°C~220°C • 特殊的針腳彎曲設計, 符合各種形狀的馬達使用 • 符合RoHS標準 <p>應用範圍:</p> <ul style="list-style-type: none"> • 各種工業設備直流馬達 • 汽車工業馬達
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Typical application/典型應用



RLC module /RLC組件

	<p>Core shape: R Type</p> <p>Features:</p> <ul style="list-style-type: none"> •Connected with fixed capacitor and resistor •Available in series or parallel model •High Q characteristics •High frequency stability •Custom-made is available •RoHS Compliance <p>Applications:</p> <ul style="list-style-type: none"> •RLC tuned circuit •The electronic harmonic oscillator •Band-pass filter •Band elimination filter 	<p>磁芯形狀: R型</p> <p>特性:</p> <ul style="list-style-type: none"> •自帶固定電容及電阻器件 •串聯 / 並聯模式 •Q值高 •頻率穩定度高 •可以依據客戶要求進行設計 •符合RoHS 標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •RCL 電路 •電子諧波振盪器 •帶通濾波器 •帶阻濾波器
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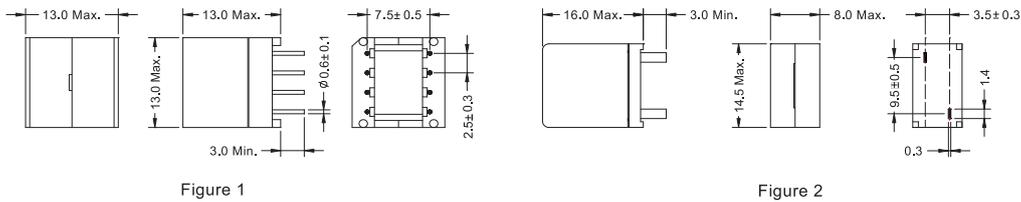
R Type inductors/R型電感

	<p>Core shape: R Type</p> <p>Features:</p> <ul style="list-style-type: none"> •High impedance •High saturation current •Produce smooth DC output voltage •Low DC resistance •High Q characteristics •RoHS Compliance <p>Applications:</p> <ul style="list-style-type: none"> •Switching-mode power supply •Linear power supply •VRM modules 	<p>磁芯形狀: R型</p> <p>特性:</p> <ul style="list-style-type: none"> •阻抗值高 •飽和電流高 •平滑輸出電壓 •直流電阻低 •Q值高 •符合RoHS標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •各類開關電源 •線性電源 •VRM電壓調整模塊
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Designed for High Fidelity audio amplifier / 高保真音響專用功率電感

	<p>Core shape: EP</p> <p>Features:</p> <ul style="list-style-type: none"> •The optimal design realized high quality sound •Extreme low distortion •Magnetic shield core design •Low DC resistance •High saturation current •Custom made is available •RoHS Compliance 	<p>磁芯形狀: EP</p> <p>特性:</p> <ul style="list-style-type: none"> •優化的設計確保高保真音質 •失真度低 •採用屏蔽磁芯設計 •直流阻抗低 •飽和電流高 •可依照客戶要求設計 •符合RoHS標準
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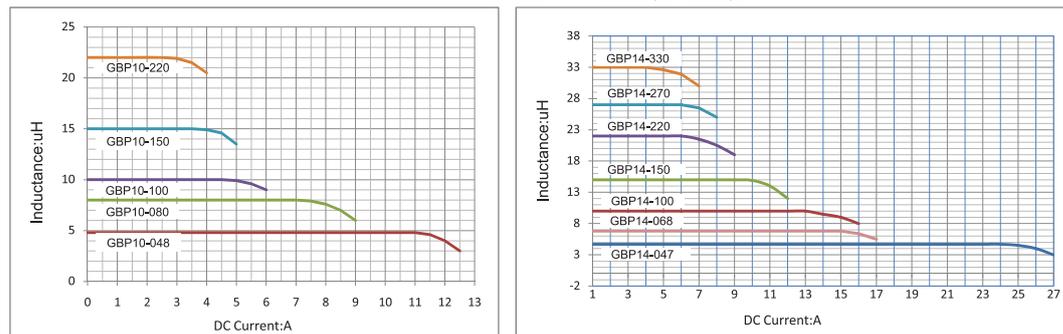
Shape and external dimension / 機械尺寸mm.



Electronical characteristics/電氣特性

Model/型號	Inductance ±20%(uH)	DCR(mΩ) (Max.)	I sat (A)Max.	I rms (A)Max.	Drawing No. 圖紙號
GBP10-048	4.8	22.0	11.0	3.5	Figure 1
GBP10-080	8.0	45.0	7.5	2.0	Figure 1
GBP10-100	10.0	45.0	5.2	2.0	Figure 1
GBP10-150	15.0	45.0	4.0	2.0	Figure 1
GBP10-220	22.0	45.0	3.0	2.0	Figure 1
GBP14-047	4.7	15.0	25.0	6.0	Figure 2
GBP14-068	6.8	15.0	15.0	6.0	Figure 2
GBP14-100	10.0	15.0	13.0	6.0	Figure 2
GBP14-150	15.0	15.0	10.0	6.0	Figure 2
GBP14-220	22.0	15.0	6.0	4.0	Figure 2
GBP14-270	27.0	18.0	6.0	4.0	Figure 2
GBP14-330	33.0	18.0	4.5	3.0	Figure 2

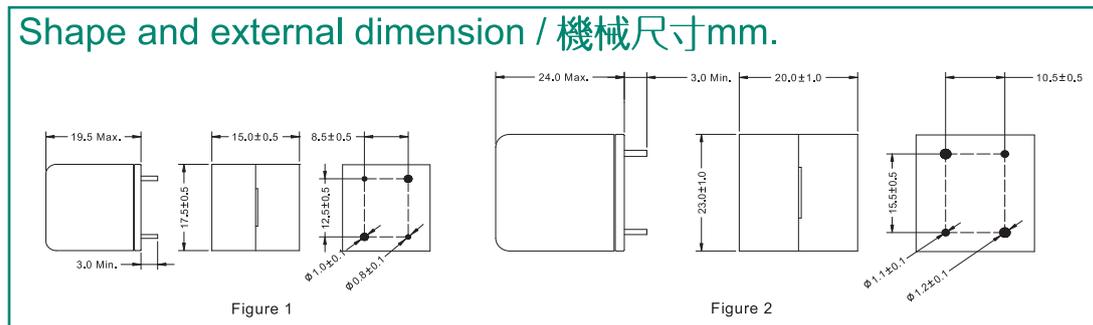
Inductance VS DC current / 電感VS直流電流



Designed for High Fidelity audio amplifier / 高保真音響專用功率電感

	<p>Core shape: EP Features:</p> <ul style="list-style-type: none"> •The optimal design realized high quality sound •Extreme low distortion •Magnetic shield core design •Low DC resistance •High saturation current •Custom made is available •RoHS Compliance 	<p>磁芯形狀: EP 特性:</p> <ul style="list-style-type: none"> •優化的設計確保高保真音質 •失真度低 •採用屏蔽磁芯設計 •直流阻抗低 •飽和電流高 •可依照客戶要求設計 •符合RoHS標準
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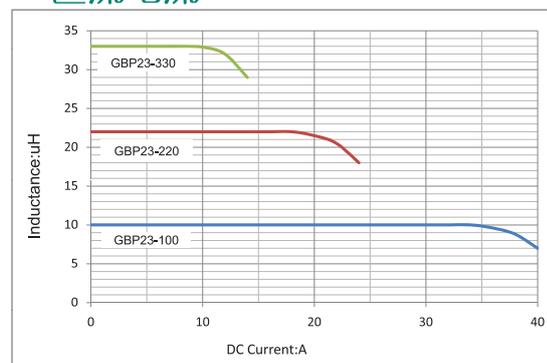
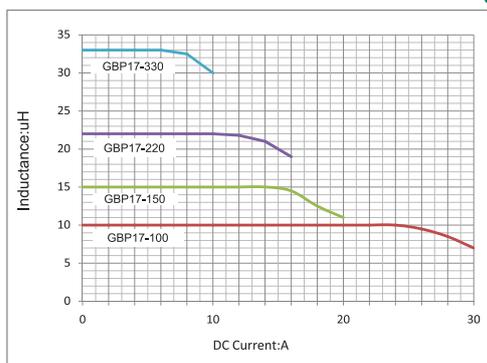
Shape and external dimension / 機械尺寸mm.



Electronical characteristics/電氣特性

Model/型號	Inductance ±20%(uH)	DCR(mΩ) (Max.)	I sat (A)Max.	I rms (A)Max.	Drawing No. 圖紙號
GBP17-100	10.0	15.0	25.0	8.0	Figure 1
GBP17-150	15.0	15.0	15.0	8.0	Figure 1
GBP17-220	22.0	15.0	12.0	8.0	Figure 1
GBP17-330	33.0	15.0	7.0	5.0	Figure 1
GBP23-100	10.0	10.0	35.0	12.0	Figure 2
GBP23-220	22.0	10.0	19.0	12.0	Figure 2
GBP23-330	33.0	10.0	11.0	7.5	Figure 2

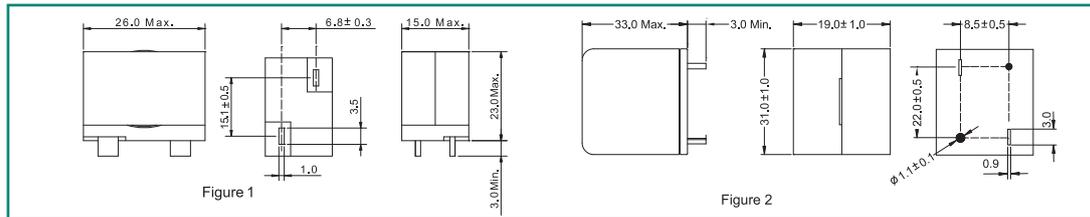
Inductance VS DC current / 電感VS直流電流



Designed for High Fidelity audio amplifier / 高保真音響專用功率電感

	<p>Core shape:EP/ER Features:</p> <ul style="list-style-type: none"> •The optimal design realized high quality sound •Extreme low distortion •Magnetic shield core design •Designed with flat wire and high power density ferrite core •Low DC resistance •High saturation current •Custom made is available •RoHS compliance 	<p>磁芯形狀:EP/ER 特性:</p> <ul style="list-style-type: none"> •優化的設計確保高保真音質 •失真度低 •採用屏蔽磁芯設計 •採用扁平線及高功率密度鐵芯設計 •直流阻抗低 •飽和電流高 •可依照客戶要求設計 •符合RoHS標準
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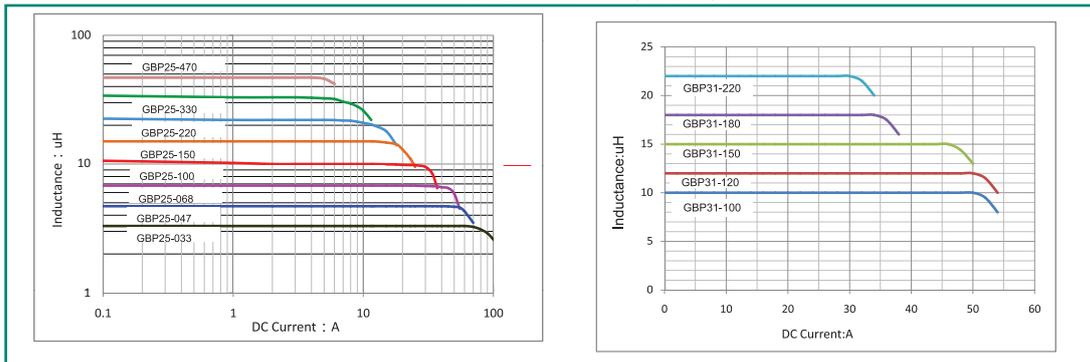
Shape and external dimension / 機械尺寸mm.



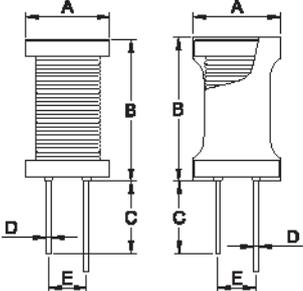
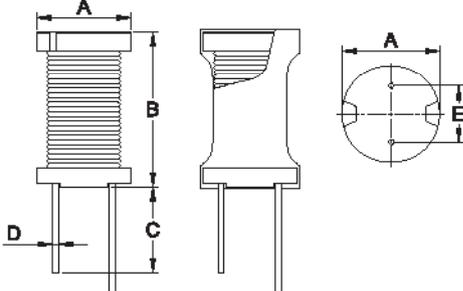
Electronical characteristics/電氣特性

Model/型號	Inductance ±20%(uH)	DCR(mΩ) (Max.)	I.sat (A)Mat.	I.rmt (A)Mat.	Drawing No. 圖紙號
GBP25-033	3.3	2.6	75.0	50.0	Figure 1
GBP25-047	4.7	2.6	65.0	45.0	Figure 1
GBP25-068	6.8	2.6	32.0	25.0	Figure 1
GBP25-100	10.0	2.6	20.0	14.0	Figure 1
GBP25-150	15.0	2.6	14.0	10.0	Figure 1
GBP25-220	22.0	2.6	9.0	6.0	Figure 1
GBP25-330	33.0	2.6	5.0	3.3	Figure 1
GBP25-470	47.0	2.6	4.0	2.7	Figure 1
GBP31-100	10.0	6.0	50.0	31.0	Figure 2
GBP31-120	12.0	6.0	50.0	31.0	Figure 2
GBP31-150	15.0	6.0	47.0	31.0	Figure 2
GBP31-180	18.0	6.0	34.0	23.0	Figure 2
GBP31-220	22.0	6.0	31.0	20.0	Figure 2

Inductance VS DC current/電感VS直流電流



DR type Inductors/工字形電感

	<p>Core shape: DR Type</p> <p>Features:</p> <ul style="list-style-type: none"> •High ability in energy storage •Low DC resistance •Quality ferrite core •Low-price products •RoHS Compliance 	<p>磁芯形狀: DR 工字型</p> <p>特性:</p> <ul style="list-style-type: none"> •儲能高 •直流阻抗低 •高質量鐵氧體磁芯 •廉價的產品 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
 <p>Figure 1</p>		 <p>Figure 2</p>

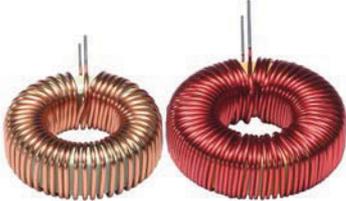
Description / 詳細描述

Core shape 磁芯形狀	DR4*6	DR6*8	DR8*10	DR9*12	DR10*12	DR14*15	DR RFB8*5	DR RFB8*6	DR RFB8*8	DR RFB8*10	DR RFB10*10
Dimension 尺寸mm											
Max. Φ A	5.0	7.0	9.0	10.0	11.0	16.0	8.0	8.0	8.0	8.0	10.3
Max. B	8.0	10.0	12.5	14.5	14.5	16.0	5.3	6.3	8.3	10.3	10.3
Min. C	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
± 0.05 Φ D	0.5	0.65	0.65	0.80	0.80	1.0	0.65	0.65	0.65	0.65	0.65
± 0.5 E							5.0	5.0	5.0	5.0	6.0
Ref. E	2.0	3.0	5.0	5.0	6.0	7.5					

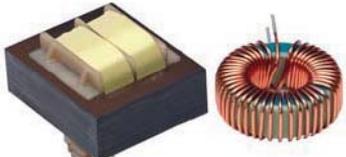
Electronical characteristics / 電氣特性

Inductance 電感量	Custom design available / 依照客戶的要求定製	
DC Resistance 直流電阻 Max		
Drawing No. 圖紙號	Figure 1	Figure 2

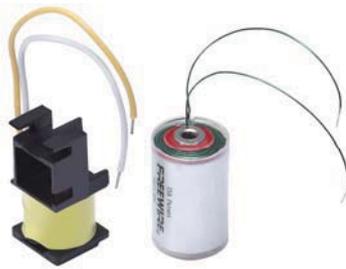
Toroidal choke / 環形電感器

	<p>Core shape: Toroidal choke</p> <p>Features:</p> <ul style="list-style-type: none"> •Core materials:Iron powder, Hi-flux,Super MSS or MPP •DC bias dominated design •High suppression of differential-mode interferences at low frequencies •Custom-design is available •RoHS Compliance 	<p>磁芯形狀: 環型電感</p> <p>特性:</p> <ul style="list-style-type: none"> •磁芯材料: 鐵粉芯, 高磁通磁粉芯, 鐵硅鋁磁粉芯, 鐵鎳鋁磁粉芯 •滿足有直流偏流要求的設計 •能有效抑製低頻段的差模干擾 •可依據客戶的要求進行設計 •產品符合RoHS 標準
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PFC choke / 功率因數校正電感

	<p>Core shape:Toroidal & EI Type</p> <p>Features:</p> <ul style="list-style-type: none"> •Low power loss •High power factor correction •A small magnetic leakage •Low cost and high performance •Operating up to 100kHz of switching frequency •Custom-design is available •RoHS Compliance 	<p>磁芯形狀: 環型或EI型</p> <p>特性:</p> <ul style="list-style-type: none"> •磁芯功耗低 •能有效提高整機的功率因數 •電磁泄漏較低 •價廉物美 •工作頻率可在100kHz以上 •可依據客戶的要求進行設計 •產品符合 RoHS 標準
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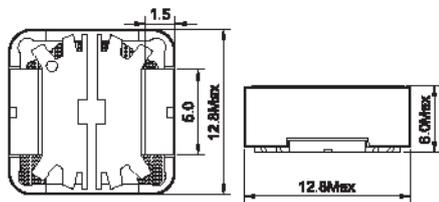
Solenoid coil / 電磁線圈

	<p>Core shape:R type soft Iron</p> <p>Features:</p> <ul style="list-style-type: none"> •High sensitive •Operating voltage: 6V - 380V •Custom-design is available •RoHS Compliance 	<p>磁芯形狀: R型軟磁</p> <p>特性:</p> <ul style="list-style-type: none"> •線圈工作的靈敏度高 •工作電壓: 6V - 380V •可依據客戶的要求進行設計 •產品符合RoHS 標準
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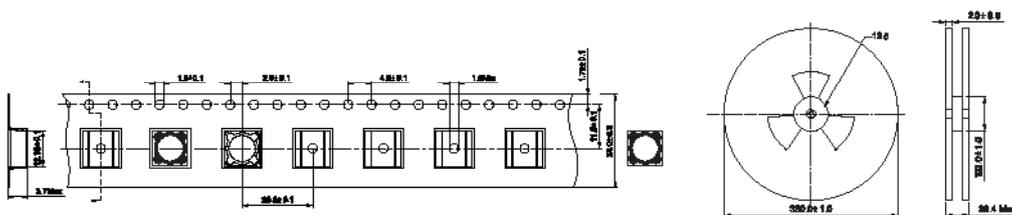
SMD power Inductor / 貼片功率電感

	<p>Core shape: DR Type Features:</p> <ul style="list-style-type: none"> •Low-profile •High rated current and low DC resistance •Magnetically shielded •Quality ferrite core •Surface-mounted •RoHS Compliance 	<p>磁芯形狀: DR 型 特性:</p> <ul style="list-style-type: none"> •產品高度小 •額定電流大, 直流阻抗低 •良好的屏蔽性能 •採用優質鐵氧體磁芯設計 •封裝形式: 表面安裝 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.



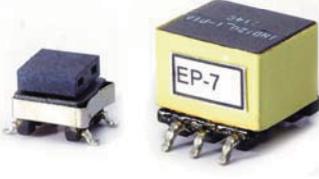
Blister tape packing / 水泡帶包裝 Unit:mm

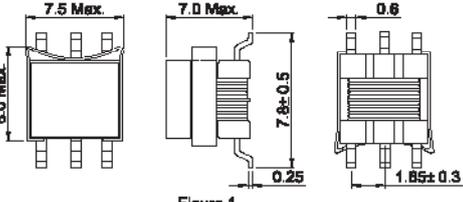
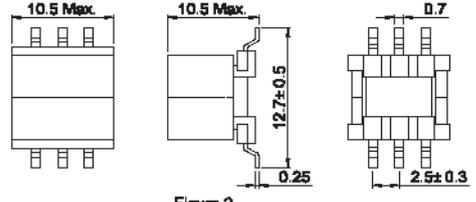
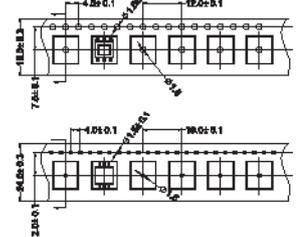
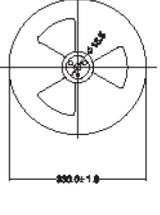
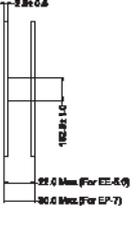


Electronical characteristics / 電氣特性

Model 型號	GBI-0001	GBI-0002	GBI-0003	GBI-0004	GBI-0005	GBI-0006	GBI-0007	GBI-0008	GBI-0009	GBI-0010	GBI-0011	GBI-0012	GBI-0013	GBI-0014	GBI-0015	GBI-0016	GBI-0017	GBI-0018	GBI-0019	GBI-0020
Inductance 電感量 uH	1.0	2.2	3.9	4.7	5.6	6.8	10	15	22	33	47	68	82	100	150	220	330	470	680	1000
Tolerance	± 20%																			
Applicable frequency 使用頻率 MHz	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05	001-05
Rated Current 額定電流 A	9.5	8.0	7.5	6.8	6.5	6.5	5.4	4.5	3.5	3.0	2.5	2.1	1.9	1.7	1.4	1.1	0.95	0.80	0.68	0.55
DC Resistance 直流電阻 mΩ Max.	7.0	10.0	12.5	14.0	14.5	18.5	22.0	27.0	38.0	55.0	85.0	120.0	150.0	165.0	230.0	380.0	600.0	800.0	1250	1700

Isolation /Gate drive transformer 隔離（柵極驅動）變壓器

	<p>Core shape:EE&EP</p> <p>Features:</p> <ul style="list-style-type: none"> •Designed for IGBT gate drive circuits •Operating frequency 50KHz-1MHz •High Isolation from gate to drive •Standard EE-5/EP-7 surface mounted packing •Custom design is available •RoHS compliance 	<p>磁芯形狀:EE&EP</p> <p>特性:</p> <ul style="list-style-type: none"> •專為IGBT柵極驅動電路設計 •工作頻率: 50KHz~1MHz •柵極/驅動極絕緣隔離度高 •採用標準的EE-5/EP-7 SMD貼片封裝 •可依照客戶要求設計 •符合RoHS標準
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<p>Shape and external dimension/機械尺寸mm.</p>					
 <p>Figure 1</p>	 <p>Figure 2</p>				
<p>Blister tape packing/水泡帶包裝 Unit:mm</p>					
					

Electronical characteristics/電氣特性 EE-5 Series/系列

Model/型號	Turn ratio Np : Ns	Inductance Pri @1KHz/50mv (uH)	DCR(Ω) Pri (Max.)	Voltage-time V.us	Isolated Voltage DC (KV)
GBIO-1:1-S	1:1	350	1	22	0.5
GBIO-1:5:1-S	1:5:1	650	1.65	38	0.5
GBIO-2:5:1-S	2:5:1	450	1.5	30	0.5

EE-7 Series/系列

Model/型號	Turn ratio Np : Ns	Inductance Pri @1KHz/50mv (uH)	DCR(Ω) Pri (Max.)	Voltage-time V.us	Isolated Voltage DC (KV)
GBIO-1:1-S	1:1	400Min.	0.50	66	2.5
GBIO-1:2-S	1:2	245Min.	0.40	52	2.5
GBIO-1:3-S	1:3	110Min.	0.35	36	2.5
GBIO-2:1-S	2:1	990Min.	0.75	100	2.5

Isolation /Gate drive transformer 隔離（柵極驅動）變壓器



Core shape: Ring Type

Features:

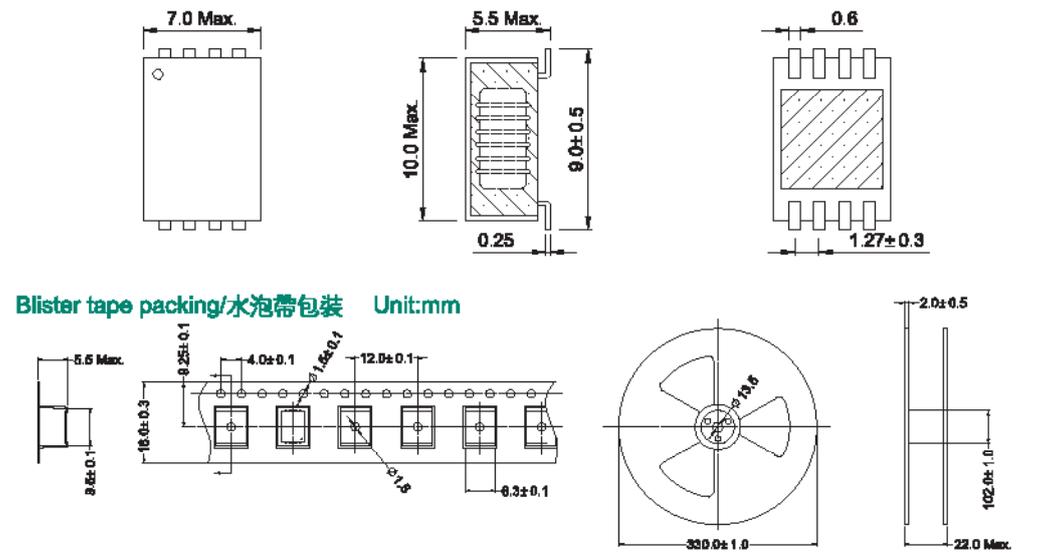
- Designed for IGBT gate drive circuits
- Operating frequency 50KHz-1MHz
- High Isolation from gate to drive
- Designed with toroidal core and completed potting process
- Custom design is available
- RoHS compliance

磁芯形狀: 環形

特性:

- 專為IGBT柵極驅動電路設計
- 工作頻率: 50KHz-1MHz
- 柵極 / 驅動極絕緣隔離度高
- 採用完全灌封工藝及環形鐵芯設計
- 可依照客戶要求設計
- 符合RoHS標準

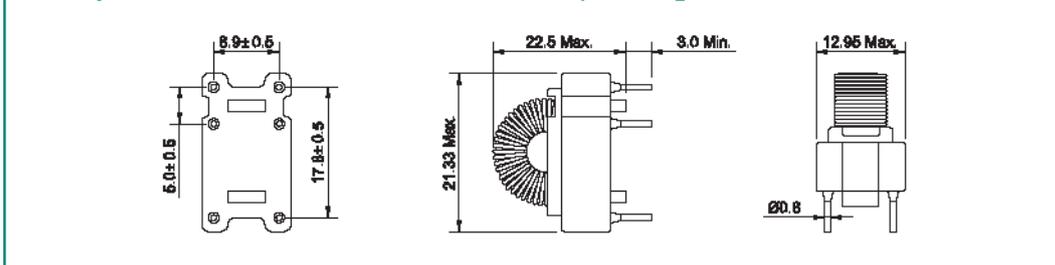
Shape and external dimension/機械尺寸mm.



Electronical characteristics/電氣特性

Model/型號	Turn ratio Np : Ns	Inductance Pri @1KHz/50mv (uH)	DCR(mΩ) Pri (Max.)	Voltage-time V.us	Isolated Voltage DC (KV)
GBIO-1:1-ST	1:1	400Min.	350	7	0.5

Shape and external dimension / 機械尺寸mm.



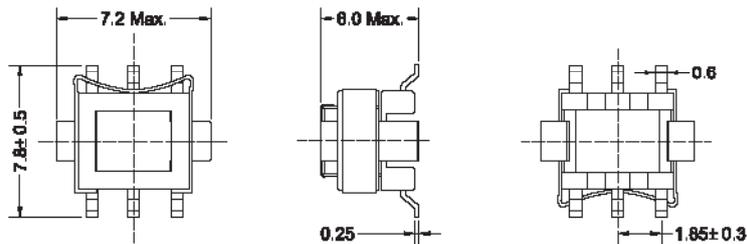
Electronical characteristics/電氣特性

Model/型號	Turn ratio Drive: Gate:Gate	Inductance Drive @1KHz/50mv (uH)	DCR(mΩ) Drive (Max.)	Voltage-time V.us	Isolated Voltage DC (KV)
GBIO-1:1:1-PT	1:1:1	450Min.	96	95	3.0
GBIO-1:1:1-PT	1:1:1	650Min.	852	115	3.0

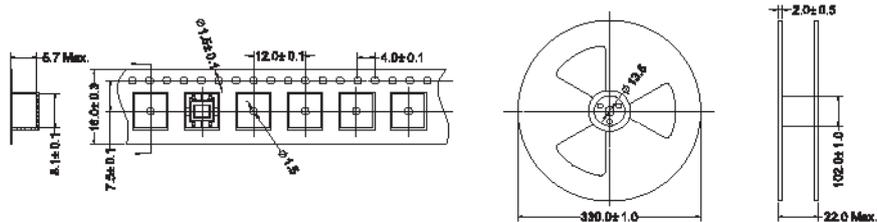
Current transformer/電流互感器

	<p>Core shape: EE-5 Features:</p> <ul style="list-style-type: none"> •Designed with the high permeability ferrite core •Different turn ratio •Low DC resistance •Surface-Mounted •RoHS Compliance 	<p>磁芯形狀: EE-5 特性:</p> <ul style="list-style-type: none"> •採用高初始磁導率磁芯設計 •各種不同的圈數比例 •直流阻抗小 •封裝形式: 表面安裝 •符合RoHS標準
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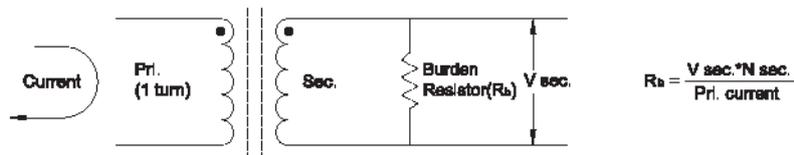
Shape and external dimension/機械尺寸mm.



Blister tape packing/水泡帶包裝 Unit:mm



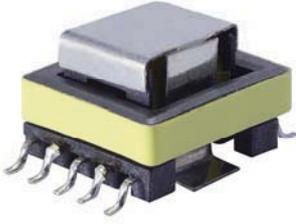
Typical application/典型應用



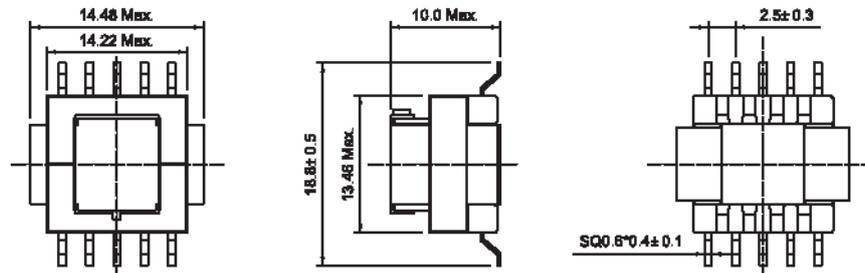
Electronical characteristics/電氣特性

Model/型號	Turn ratio N _p : N _s	Inductance Sec. @1KHz/50mv (uH)	DCR(mΩ) (Max.)	Voltage-time V.us	Burden Resistance. R _b Ω
GBCT-1:20-S	1:20	81	400	10.8	2.0
GBCT-1:30-S	1:30	180	870	16.2	3.0
GBCT-1:40-S	1:40	320	1140	21.6	4.0
GBCT-1:50-S	1:50	500	1500	27.0	5.0
GBCT-1:60-S	1:60	730	1980	32.4	6.0
GBCT-1:70-S	1:70	980	3000	37.8	7.0
GBCT-1:100-S	1:100	2000	5500	54.0	10.0
GBCT-1:125-S	1:125	3000	6500	67.5	12.5

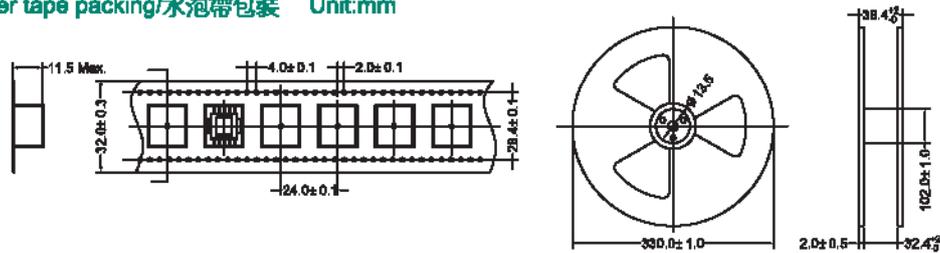
Current transformer/電流互感器

	<p>Core shape: EE-12.6 Features:</p> <ul style="list-style-type: none"> •Designed with the high permeability ferrite core •Different turn ratio •Low DC resistance •Surface-Mounted •RoHS Compliance 	<p>磁芯形狀: EE-12.6 特性:</p> <ul style="list-style-type: none"> •採用高初始磁導率磁芯設計 •各種不同的圈數比例 •直流阻抗小 •封裝形式: 表面安裝 •符合RoHS標準
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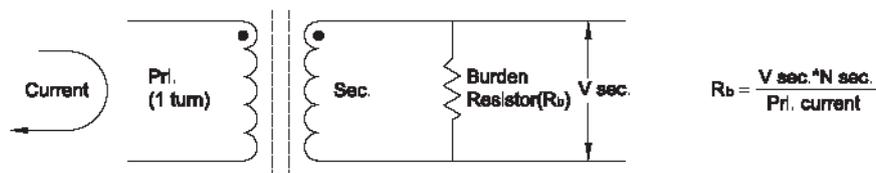
Shape and external dimension/機械尺寸mm.



Blister tape packing/水泡帶包裝 Unit:mm



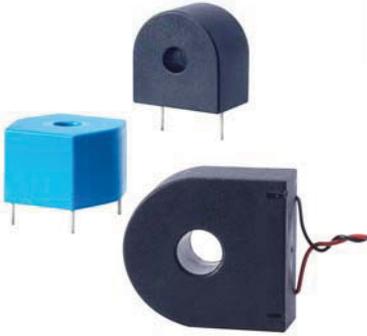
Typical application/典型應用



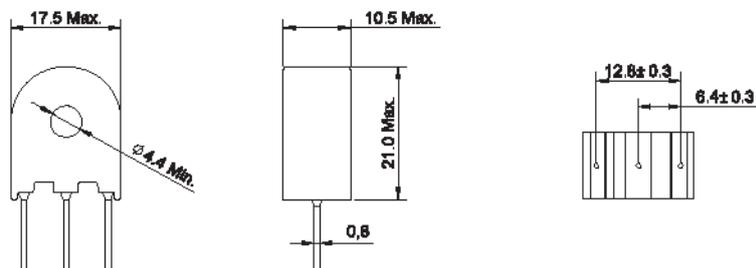
Electronical characteristics/電氣特性

Model/型號	Turn ratio N _p : N _s	Inductance Sec. @1KHz/50mv (Min.)	SEC DCR(Ω) (Max.)	Voltage-time V.us	Burden Resistance. R _b Ω
GBCT-1:150-S	1:150	12mH	2.23	375	150
GBCT-1:200-S	1:200	22mH	2.93	500	200

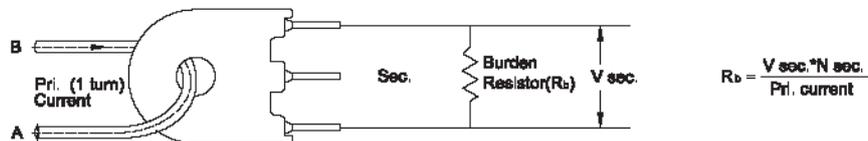
Current transformer/電流互感器

	<p>Core shape: Ring type Features:</p> <ul style="list-style-type: none"> •Designed with the high permeability Nano-crystalline core •Completed potting process •Wall thickness meets safety standards •Different turn ratio •RoHS Compliant 	<p>磁芯形狀：環形 特性：</p> <ul style="list-style-type: none"> •採用高磁導率納米晶磁芯設計 •採用完全灌封工藝 •壁厚符合安全標準 •各種不同的圈數比例 •符合RoHS標準
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Shape and external dimension/機械尺寸mm.



Typical application/典型應用



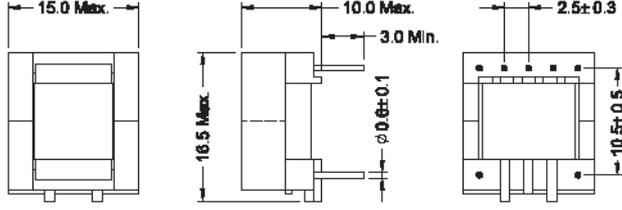
Electronical characteristics/電氣特性

Model/型號	Turn ratio Np : Ns	Inductance Sec. @1KHz/50mv (mH)	DCR(Ω) (Max.)	Voltage-time V.us	Burden Resistance. Rb Ω
GBCT-1:50-T	1:50	5	0.7	149	1.4
GBCT-1:100-T	1:100	20	1.4	298	2.9
GBCT-1:200-T	1:200	80	4.5	596	5.7
GBCT-1:750-T	1:750	1125	62.0	2235	21.4

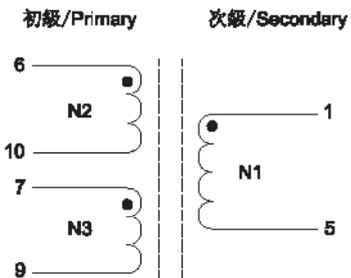
Inverter transformer / 逆變器用變壓器

	<p>Core shape: UI,EPC,EEL Features: •Operating temperature range: -10°C to +85°C •Output voltage : 1800 Vrms Max. •Operating frequency : 40 KHz~200KHz •Lamp wattage : 3.5 ~ 18 Watts •RoHS Compliance</p> <p>Applications: •CCFL (Cold-cathode fluorescent light) •LCD,TFT •Back photosource</p>	<p>磁芯形狀: UI,EPC,EEL 特性: •工作溫度範圍:-10°C to +85°C •輸出電壓:1800 Vrms Max. •工作頻率:40 KHz~200KHz •燈管功率:3.5 ~ 18瓦特 •符合RoHS標準</p> <p>應用範圍: •冷陰極熒光液晶顯示器 •液晶顯示設備 •各類背光源</p>
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EPC13 Series/EPC13 系列

	<p>Shape and external dimension/機械尺寸mm.</p> 
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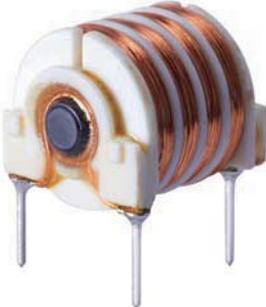
Typical application/典型應用

Parameters 參數	Model/型號		Schematic diagram 電氣原理圖
	GBC-01	GBC-02	
Turn ratio (P:S)	1:67	1:67	
Turn ratio (P:f)	1:0.18	1: 0.16	
Inductance: Pri.	50uH	90uH	
Input voltage	23V	22V	
Output power	3~6W	3~6W	
Secondary current	4mA	5mA	
Output voltage	2000V	1800V	
Dielectric strength (P-S)	2.5KV	2.5KV	

High voltage transformer for ozone generator / 臭氧發生器專用高壓變壓器

	<p>Core shape:UYF 10</p> <ul style="list-style-type: none"> •Multi-section bobbin design •Complete potting process •Input voltage 9.0V~12.0V •Output voltage 3.0KV •Output power up to 30W •Operating frequency:10KHz~20KHz •RoHS Compliance <p>Application:</p> <ul style="list-style-type: none"> •Ozone generator 	<p>磁芯形狀:UYF 10</p> <ul style="list-style-type: none"> •多層骨架設計 •環氧樹脂灌封 •輸入電壓: 9.0V~12.0V •輸出電壓: 3.0KV •輸出功率: 30W •工作頻率: 10KHz~20KHz •符合RoHS標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •臭氧發生器
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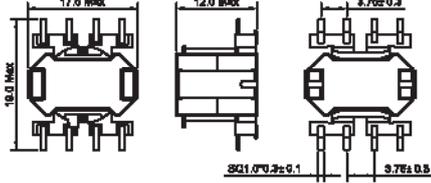
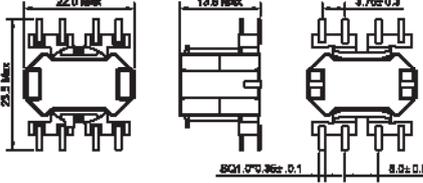
Ignition transformer/點火變壓器

	<p>Core shape:R Type</p> <p>Features:</p> <ul style="list-style-type: none"> •Waterproof •Complete potting •High output voltage •High thermal stability •Multilayer winding •RoHS Compliance <p>Application:</p> <ul style="list-style-type: none"> •Electronic firing circuit •Backlight 	<p>磁芯形狀:R型</p> <p>特性:</p> <ul style="list-style-type: none"> •良好的防水性能 •環氧樹脂灌封 •輸出電壓高 •熱穩定性良好 •多層的繞組設計 •符合RoHS標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •電子點火電路 •各類背光源
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HID Transformer / 氙氣燈專用變壓器

	<p>Core shape:R Type</p> <p>Features:</p> <ul style="list-style-type: none"> •High output voltage •High thermal stability •Complete potting •Multilayer winding •RoHS Compliance <p>Application:</p> <ul style="list-style-type: none"> •HID (high intensity discharge) for automobiles •High brightness illumination devices 	<p>磁芯形狀:R型</p> <p>特性:</p> <ul style="list-style-type: none"> •輸出電壓高 •熱穩定性良好 •採用環氧樹脂灌封 •採用多層繞組設計 •符合RoHS標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •車用氙氣燈 •高亮度照明設備
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Telecom transformer / 通訊類變壓器

	<p>Core shape:RM-5 & RM-6</p> <p>Features:</p> <ul style="list-style-type: none"> •Low total harmonic distortion •Optimized magnetic shield for low Interference •High performance •High-power output •Safety standards approved •RoHS compliance 	<p>磁芯形狀:RM-5 & RM-6</p> <p>特性:</p> <ul style="list-style-type: none"> •總諧波失真小 •產品具有良好的屏蔽性能 •高性能的設計 •輸出功率高 •符合安全標準 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
 <p>Figure 1</p>		 <p>Figure 2</p>

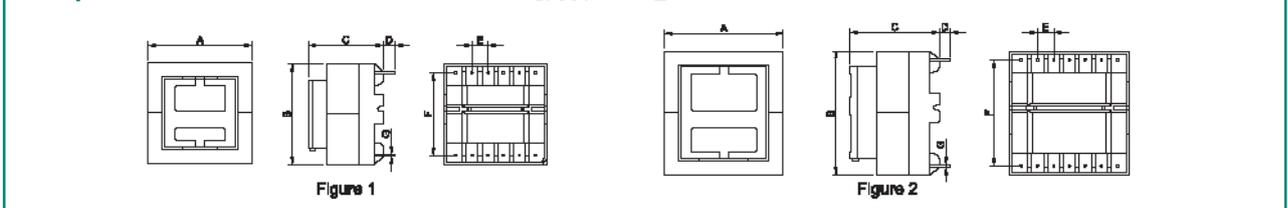
Electronical characteristics / 電氣特性

Core shape 磁芯形狀	RM-5	RM-5	RM-6
Center leg area 磁芯中柱面積 A_e mm ²	23.6	23.6	34.07
Length of magnetic circuit 磁路長度 L_e mm	18.1	18.1	30.92
Volume 體積 V_e mm ³	23.3	23.3	1053.4
Bobbin type 骨架類型	Vertical/立式	Vertical/立式	Vertical/立式
Turn ratio 圈數比例	N1:N2:N3=1:1:3	N1:N2:N3:N4=1:1:1:1	N1:N2=1:2.5
Inductance 電感量 10KHz/0.1V N1	2.5mH Min.	1.0H Min.	3.6mH Min.
DC Resistance 直流阻抗(Ω)Max. N1	6.5	30.0	4.5
Drawing No.圖紙號	Figure 1	Figure 1	Figure 2

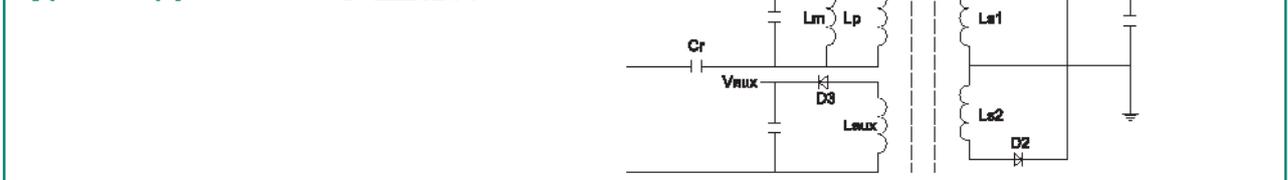
LLC Model Resonance switching power transformer/LLC 諧振式開關電源變壓器

	<p>Core shape: EFD, ER & ETD</p> <p>Features:</p> <ul style="list-style-type: none"> • Leakage inductance integrated • Designed with split bobbin • Low-loss/High saturation magnetic flux density ferrite • Reinforce insulation design • Products meet the safety standards • RoHS Compliance 	<p>磁芯形狀: EFD, ER & ETD</p> <p>特性:</p> <ul style="list-style-type: none"> • 集成固定漏感值 • 採用分體式骨架設計 • 採用低損耗高飽和磁通密度磁芯設計 • 加強絕緣設計 • 產品符合安全標準 • 符合RoHS標準
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Shape and external dimension / 機械尺寸mm.



Typical application / 典型應用.



Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EFD-25/30/6.5	ER28/28/9.9	ETD34/35/10.8	ER35/42/11.3	ETD39/42/12.7
No. of Terminals 針腳數	6+6	6+6	6+6	7+7	7+7
Dimension 尺寸mm					
Max.A	28.5	31.0	38.0	37.5	43.0
Max.B	32.0	31.0	36.0	45.0	45.0
Max.C	20.5	26.0	26.5	32.0	33.0
Min.D	3.0	3.0	3.0	3.0	3.0
± 0.3 E	4.1	5.0	5.5	5.0	5.8
± 0.5 F	25.0	25.0	28.0	37.0	36.0
± 0.1 ØG	0.8	0.8	0.8	1.0	0.8
Main Inductance Lp (Typ.) 主電感(uH) Lp	540	545	621	523	275
Leakage inductance (Typ.) 漏電感(uH) LKG	70	70	110	100	60
Resonance Frequency 諧振頻率 KHz	128	128	128	128	128
Center leg area 磁芯中柱面積Ae mm ²	62.93	85.88	96.50	110.72	127
Maximum output 最大輸出功率 VA	50	75	180	200	300
Drawing No. 圖紙號	Figure 1	Figure 1	Figure 1	Figure 2	Figure 2

Switching power transformer / 開關電源變壓器

	<p>Core shape: ER Series</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Low leakage inductance •High-power output •Surface-mounted •Low-profile •RoHS Compliance 	<p>磁芯形狀:ER 系列</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •泄漏電感低 •高功率輸出 •針腳封裝形式:SMD •產品高度小 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

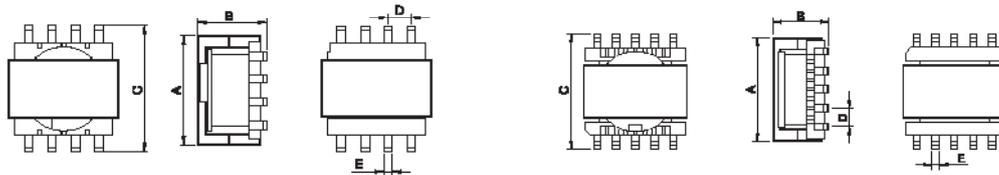


Figure 1

Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ER-7.5	ER-9.5	ER-11.5	ER-14.5
Bobbin type 線架類型	Vertical/立式	Vertical/立式	Vertical/立式	Vertical/立式
No. of Terminals 針腳數	4+4	4+4	5+5	5+5
Dimension 尺寸mm				
Max.A	8.0	9.8	13.0	16.0
Max.B	6.0	6.0	7.0	7.5
±0.5 C	9.3	11.55	12.2	16.0
±0.3 D	1.75	2.0	2.0	2.5
±0.1 E(SQ)	0.6*0.25	0.7*0.25	0.7*0.25	0.7*0.3
Maximum output 最大輸出功率 VA	1.0	5.0	10.0	18.0
Drawing No.圖紙號	Figure 1		Figure 2	

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EF-12.5&EPC-13</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/High saturation magnetic flux density ferrite. •High efficiency •High-power output •Surface-mounted •Low-profile •RoHS compliance 	<p>磁芯形狀: EF-12.5&EPC-13</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •轉換效率高。 •高功率輸出。 •封裝形式: 表面安裝 •產品高度小。 •符合RoHS標準。
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Shape and external dimension / 機械尺寸mm.

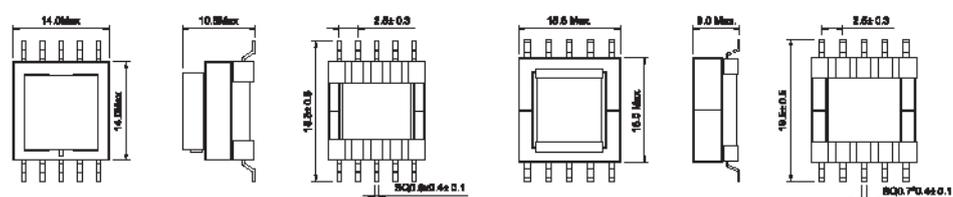


Figure 1

Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EF-12.5/13/4	EPC-13
Center leg area 磁芯中柱面積 A_e mm ²	12.4	12.79
Length of magnetic circuit 磁路長度 L_e mm	29.7	28.76
Volume 體積 V_e mm ³	369	368
Bobbin type 骨架類型	Horizontal/臥式	Horizontal/臥式
External dimension外觀尺寸W*D*H mm	14.0*14.0*10.5	15.5*15.0*9.0
Input voltage 輸入電壓(V)	12.0	23
Output voltage 輸出電壓(V)	700	500
Rated current 額定電流(mA)	3.0	3.0
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz

注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EFD Series</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Low leakage inductance •High-power output •Surface-mounted •Low-profile •RoHS Compliance 	<p>磁芯形狀: EFD 系列</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •洩漏電感低 •高功率輸出 •針腳封裝形式: SMD •產品高度小 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

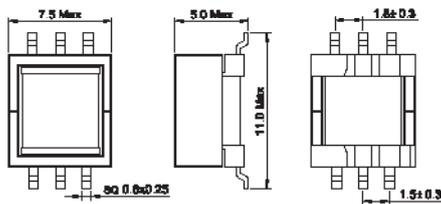


Figure 1

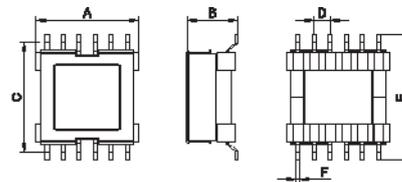


Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EFD-6.5	EFD-15/15/5	EFD-20/20/7	EFD-25/25/9
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式	Horizontal/臥式	Horizontal/臥式
No. of Terminals 針腳數	3+3	6+6	6+6	5+5
Dimension 尺寸mm				
Max. A		17.5	22.0	27.0
Max. B		9.0	11.5	14.0
Ref C		18.2	24.6	29.7
±0.3 D		2.5	3.0	5.0
±0.5 E		21.8	28.65	31.5
±0.1 F(SQ)		0.7*0.4	0.7*0.4	1.1*0.4
Maximum output 最大輸出功率 VA	2	5	18	45
Drawing No. 圖紙號	Figure 1	Figure 2		

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EE-5.0 & EE-8.3</p> <p>Features:</p> <ul style="list-style-type: none"> •Low DC resistance •Low profile •Low-price products •RoHS Compliance 	<p>磁芯形狀: EE-5.0 & EE-8.3</p> <p>特性:</p> <ul style="list-style-type: none"> •低直流阻抗 •產品尺寸小 •廉價的機種 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

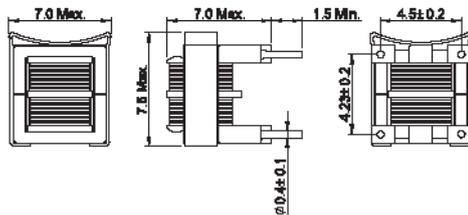


Figure 1

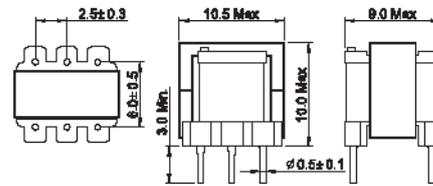


Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-5/5/2	EE-8.3/8/4
Center leg area 磁芯中柱面積 A_e mm ²	2.6	7.6
Length of magnetic circuit 磁路長度 L_e mm	12.7	20.5
Volume 體積 V_e mm ³	32.5	155
Bobbin type 線架類型	Horizontal/臥式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	7.0*7.5*7.0	10.5*9*10
Maximum output 最大輸出功率 VA	0.3	0.8
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EE-10&EE-13</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EE-10 & EE-13</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

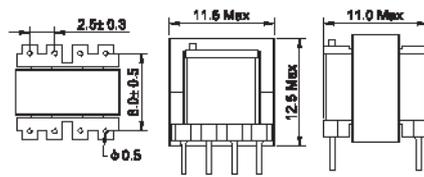


Figure 1

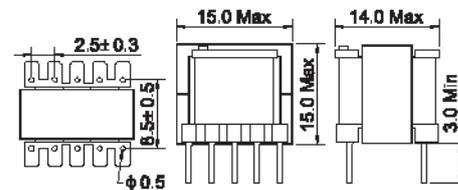


Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-10/11/5	EE-13/9/6
Center leg area 磁芯中柱面積 A_e mm ²	12.7	16.6
Length of magnetic circuit 磁路長度 L_e mm	26.1	23.6
Volume 體積 V_e mm ³	331	391
Bobbin type 線架類型	Vertical/立式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	11.5*11*12.5	15*14*15
Maximum output 最大輸出功率 VA	5	9
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器



Core shape: EE-16

Features:

- Low-loss/ High saturation magnetic flux density ferrite
- General purpose application
- Low-price products
- Products meet the safety standards due to the triple insulation wire design
- RoHS Compliance

磁芯形狀:EE-16

特性:

- 採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。
- 適用於普通電源
- 廉價的機種
- 次級繞組採用三層絕緣線設計,符合安全標準
- 符合RoHS標準

Shape and external dimension / 機械尺寸mm.

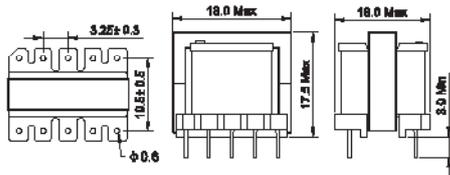


Figure 1

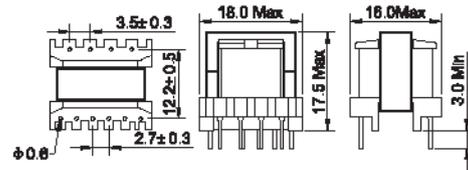


Figure 2

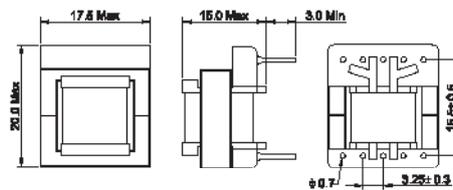


Figure 3

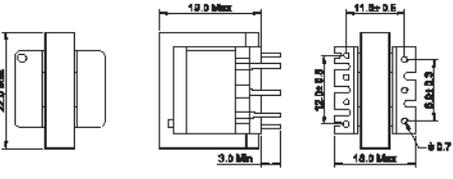
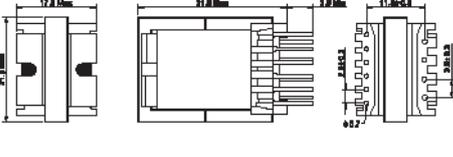
Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-16/15/5	EE-16/15/5	EE-16/16/5
Center leg area 磁芯中柱面積 A_e mm ²	19.3	19.3	19.3
Length of magnetic circuit 磁路長度 L_e mm	35.7	35.7	35.7
Volume 體積 V_e mm ³	687	687	687
Bobbin type 線架類型	Vertical/立式	Vertical/立式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	18*16*17.5	18*16*17.5	17.5*20*15
Maximum output 最大輸出功率 VA	25	25	25
Drawing No.圖紙號	Figure 1	Figure 2	Figure 3

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz

注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EE-19 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EE-19 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
<h3>Shape and external dimension / 機械尺寸mm.</h3>		
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-19/16/5	EE-19/27/5
Center leg area 磁芯中柱面積 A_e mm ²	23.3	23.3
Length of magnetic circuit 磁路長度 L_e mm	39.2	62.1
Volume 體積 V_e mm ³	914	1448
Bobbin type 線架類型	Vertical/立式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	22*16*19	21*17.5*31.5
Maximum output 最大輸出功率 VA	35	35
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EE-19 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EE-19 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

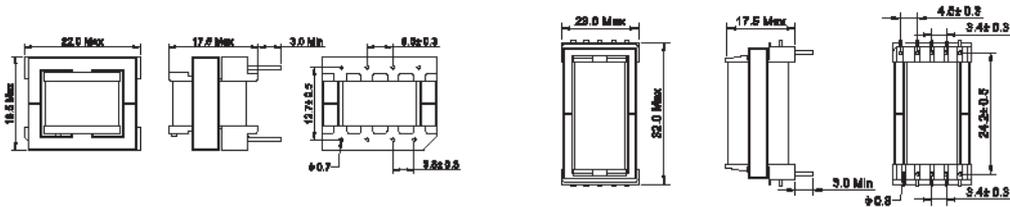


Figure 1

Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-19/16/5	EE-19/27/5
Center leg area 磁芯中柱面積 A_e mm ²	23.3	23.3
Length of magnetic circuit 磁路長度 L_e mm	39.2	62.1
Volume 體積 V_e mm ³	914	1448
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	22*18.5*17.5	23*32*17.5
Maximum output 最大輸出功率 VA	35	35
Drawing No. 圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EF-20 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EF-20 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

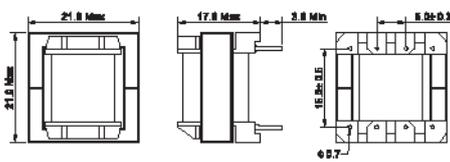


Figure 1

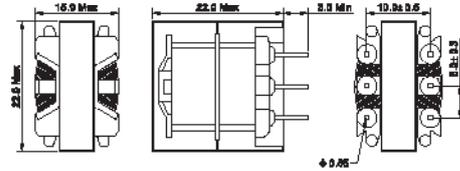


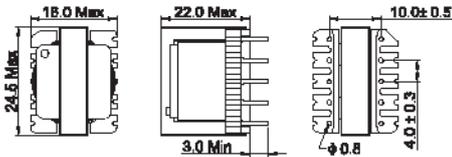
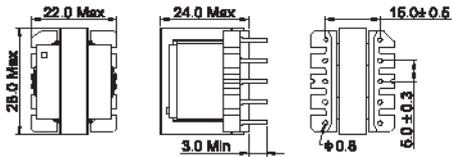
Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EF-20/20/6	EF-20/20/6
Center leg area 磁芯中柱面積 A_e mm ²	35.6	35.6
Length of magnetic circuit 磁路長度 L_e mm	42.2	42.2
Volume 體積 V_e mm ³	1505	1505
Bobbin type 線架類型	Horizontal/臥式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	21*21*17	22*15*22
Maximum output 最大輸出功率 VA	35	35
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

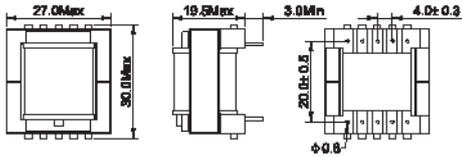
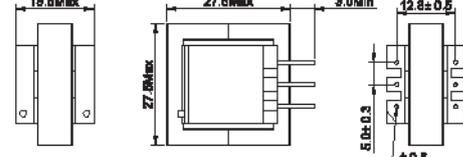
	<p>Core shape: EE-22 & EE-25</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EE-22 & EE-25</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-22/19/6	EE-25/20/6
Center leg area 磁芯中柱面積 A_e mm ²	39.6	40.7
Length of magnetic circuit 磁路長度 L_e mm	41.5	49.9
Volume 體積 V_e mm ³	1645	2034
Bobbin type 線架類型	Vertical/立式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	24.5*18*22	28.0*22*24
Maximum output 最大輸出功率 VA	45	65
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

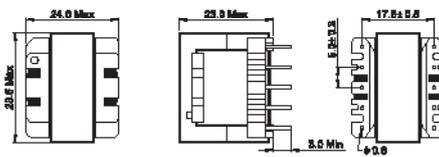
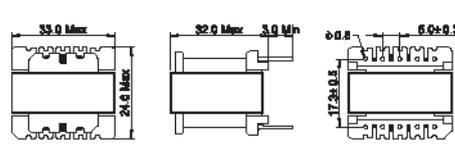
	<p>Core shape: EF-25</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EF-25</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
<h3>Shape and external dimension / 機械尺寸mm.</h3>		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EF-25/26/7	EF-25/26/7
Center leg area 磁芯中柱面積 A_e mm ²	33.5	33.5
Length of magnetic circuit 磁路長度 L_e mm	44.9	44.9
Volume 體積 V_e mm ³	1500	1500
Bobbin type 線架類型	Horizontal/臥式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	27*30*19.5	27.5*18.5*27.5
Maximum output 最大輸出功率 VA	65	65
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

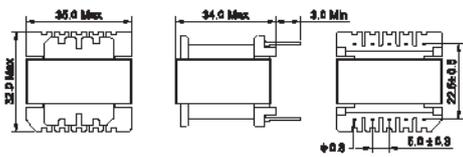
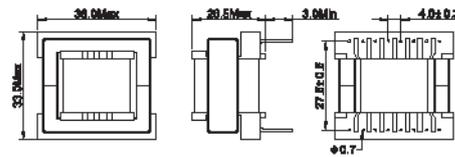
	<p>Core shape: EE-28 & EE-30</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EE-28 & EE-30</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-28/21/11	EE-30/26/11
Center leg area 磁芯中柱面積 A_e mm ²	87.7	109
Length of magnetic circuit 磁路長度 L_e mm	50.8	58.5
Volume 體積 V_e mm ³	4453	6377
Bobbin type 線架類型	Vertical/立式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	29.5*24*23	33*24*32
Maximum output 最大輸出功率 VA	100	155
Drawing No. 圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EI-33 & EE-35</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •General purpose application •Low-price products •Products meet the safety standards due to the triple insulation wire design •RoHS Compliance 	<p>磁芯形狀: EI-33 & EE-35</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計。 •適用於普通電源 •廉價的機種 •次級繞組採用三層絕緣線設計，符合安全標準 •符合RoHS標準
<h3>Shape and external dimension / 機械尺寸mm.</h3>		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EI-33/29/13	EE-35/29/9
Center leg area 磁芯中柱面積 A_e mm ²	117.8	83.6
Length of magnetic circuit 磁路長度 L_e mm	67.4	70.3
Volume 體積 V_e mm ³	7947	5872
Bobbin type 線架類型	Vertical/立式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	35*32*34	36*33*26.5
Maximum output 最大輸出功率 VA	200	215
Drawing No. 圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EE-40 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀: EE-40 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •輸出範圍寬 •符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

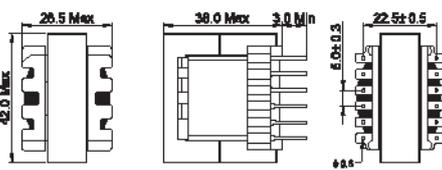


Figure 1

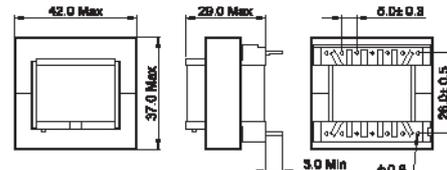


Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-40/35/12	EE-40/35/12
Center leg area 磁芯中柱面積 A_e mm ²	147.9	147.9
Length of magnetic circuit 磁路長度 L_e mm	77.2	77.2
Volume 體積 V_e mm ³	11414	11414
Bobbin type 線架類型	Vertical/立式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	42*28.5*38	42*37*29
Maximum output 最大輸出功率 VA	345	345
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器



Core shape: EE-42 & EE-55

Features:

- Low-loss/ High saturation magnetic flux density ferrite
- Compatible with multiple output switch-mode power supplies
- A wide range of output
- Safety standards approved
- RoHS Compliance

磁芯形狀: EE-42 & EE-55

特性:

- 採用低損耗高飽和磁通密度鐵氧體磁芯進行設計
- 適用於多組輸出的開關電源
- 輸出範圍寬
- 符合安全標準
- 符合RoHS標準

Shape and external dimension / 機械尺寸mm.

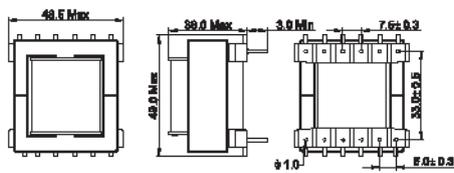


Figure 1

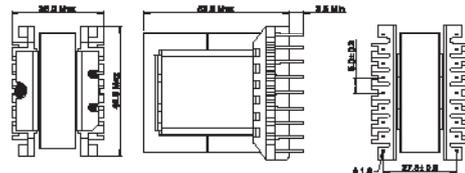


Figure 2

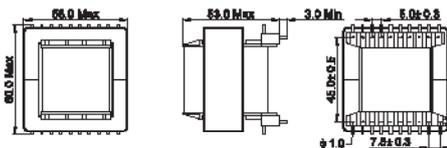


Figure 3

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EE-42/42/15	EE-42/42/15	EE-55/55/21
Center leg area 磁芯中柱面積 A_e mm ²	178.9	178.9	352.5
Length of magnetic circuit 磁路長度 L_e mm	97.8	97.8	123.4
Volume 體積 V_e mm ³	17501	17501	43478
Bobbin type 線架類型	Horizontal/臥式	Vertical/立式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	48.5*49*36	48*35*53	58*60*53
Maximum output 最大輸出功率 VA	400	400	814
Drawing No. 圖紙號	Figure 1	Figure 2	Figure 3

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: ER-28 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀: ER-28 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

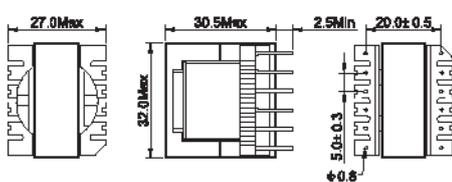


Figure 1

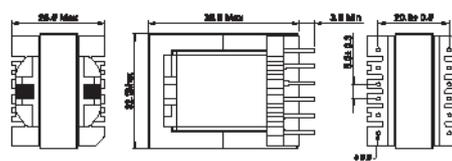


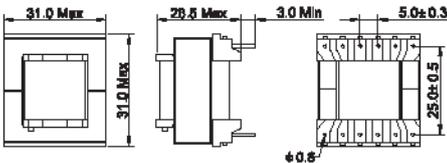
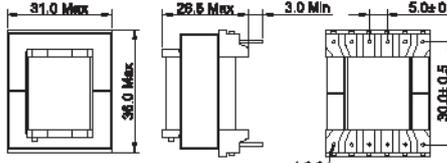
Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ER-28/28/11	ER-28/34/11
Center leg area 磁芯中柱面積 A_e mm ²	82.1	85.6
Length of magnetic circuit 磁路長度 L_e mm	64.0	73.2
Volume 體積 V_e mm ³	5254	6266
Bobbin type 線架類型	Vertical/立式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	32*27*30.5	32*28.5*39
Maximum output 最大輸出功率 VA	228	228
Drawing No. 圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: ER-28 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀:ER-28 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ER-28/28/11	ER-28/34/11
Center leg area 磁芯中柱面積 A_e mm ²	82.1	85.6
Length of magnetic circuit 磁路長度 L_e mm	64.0	73.2
Volume 體積 V_e mm ³	5254	6266
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	31*31*26.5	31*38*26.5
Maximum output 最大輸出功率 VA	228	228
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: ETD-29 & ETD-34 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀:ETD-29 & ETD-34 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

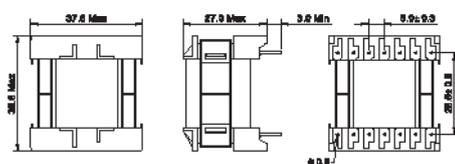


Figure 1

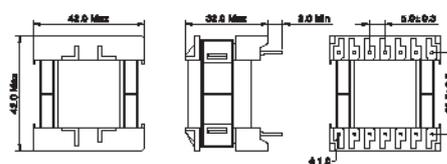


Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ETD-29/32/10	ETD-34/34/11
Center leg area 磁芯中柱面積 A_e mm ²	73.4	97.1
Length of magnetic circuit 磁路長度 L_e mm	70.6	78.6
Volume 體積 V_e mm ³	5196	7632
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	37.5*36.5*27	42*42*32
Maximum output 最大輸出功率 VA	170	270
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz

注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: ER-35 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀:ER-35 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

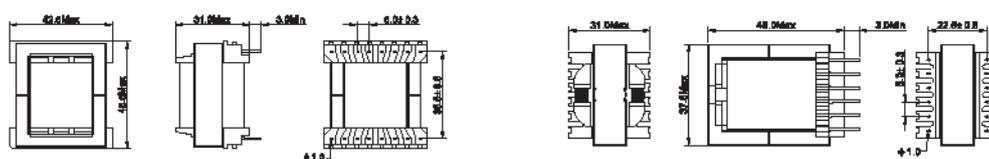


Figure 1

Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ER-35/42/11	ER-35/42/11
Center leg area 磁芯中柱面積 A_e mm ²	107	107
Length of magnetic circuit 磁路長度 L_e mm	90.8	90.8
Volume 體積 V_e mm ³	9716	9716
Bobbin type 線架類型	Horizontal/臥式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	42.5*45.5*31	37.5*31*46
Maximum output 最大輸出功率 VA	325	325
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: ER-40 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀: ER-40 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多相輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

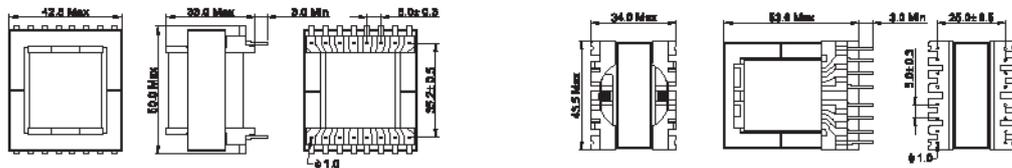


Figure 1

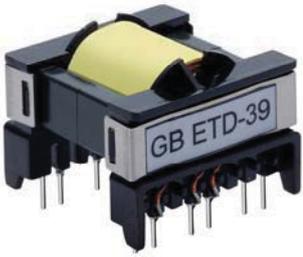
Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ER-40/45/13	ER-40/45/13
Center leg area 磁芯中柱面積 A_e mm ²	151.6	151.6
Length of magnetic circuit 磁路長度 L_e mm	96.2	96.2
Volume 體積 V_e mm ³	14585	14585
Bobbin type 線架類型	Horizontal/臥式	Vertical/立式
External dimension 外觀尺寸 W*D*H mm	42.5*50*33	43.5*34*53
Maximum output 最大輸出功率 VA	421	421
Drawing No. 圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: ETD-39 & ETD-44 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀:ETD-39 & ETD-44 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

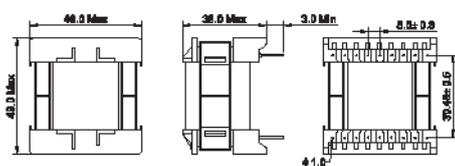


Figure 1

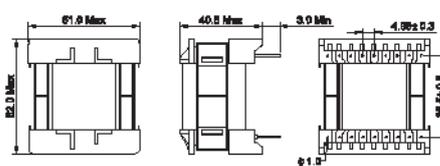


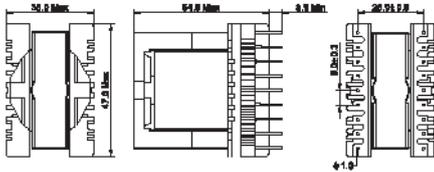
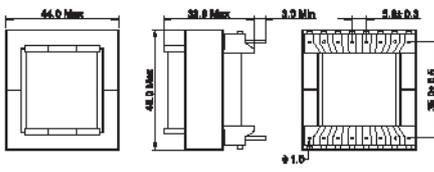
Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ETD-39/40/13	ETD-44/45/15
Center leg area 磁芯中柱面積 Ae mm ²	125	173
Length of magnetic circuit 磁路長度 Le mm	92.1	103
Volume 體積 Ve mm ³	11510	17720
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	46*49*38	51*52*40.5
Maximum output 最大輸出功率 VA	380	520
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

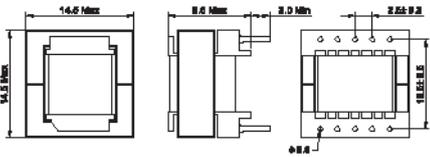
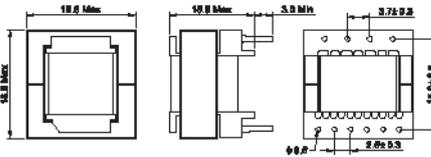
	<p>Core shape: ER-42 Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •A wide range of output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀: ER-42 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •輸出範圍寬 •符合安全標準 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
 <p style="text-align: center;">Figure 1</p>		 <p style="text-align: center;">Figure 2</p>

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	ER-42/45/15	ER-42/45/15
Center leg area 磁芯中柱面積 A_e mm ²	203.7	203.7
Length of magnetic circuit 磁路長度 L_e mm	96.3	96.3
Volume 體積 V_e mm ³	19456	19456
Bobbin type 線架類型	Vertical/立式	Horizontal/卧式
External dimension 外觀尺寸 W*D*H mm	47*35*54	44*48*33
Maximum output 最大輸出功率 VA	450	450
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EPC-13 & EPC-17</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •Low-profile •RoHS Compliance 	<p>磁芯形狀: EPC-13 & EPC-17</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •產品高度小 •符合RoHS標準
<h3>Shape and external dimension / 機械尺寸mm.</h3>		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EPC-13/13/5	EPC-17/17/6
Center leg area 磁芯中柱面積 A_e mm ²	12.4	22.2
Length of magnetic circuit 磁路長度 L_e mm	28.9	38.8
Volume 體積 V_e mm ³	358	860
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	14.5*14.5*9.5	18.5*18.5*15.5
Maximum output 最大輸出功率 VA	1.0	10.0
Drawing No. 圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EPC-19 & EPC-30</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •Low-profile •RoHS Compliance 	<p>磁芯形狀: EPC-19 & EPC-30</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •產品高度小 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

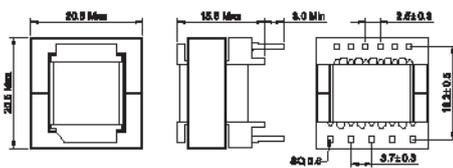


Figure 1

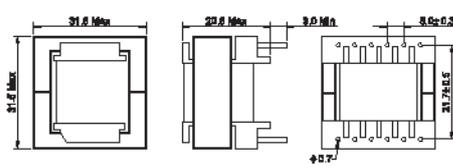


Figure 2

Electronical characteristics / 電氣特性

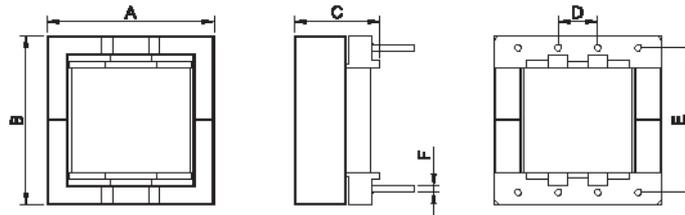
Core shape 磁芯形狀	EPC-19/20/6	EPC-30/30/8
Center leg area 磁芯中柱面積 A_e mm ²	22.7	61
Length of magnetic circuit 磁路長度 L_e mm	46.1	81.6
Volume 體積 V_e mm ³	1047	5035
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式
External dimension 外觀尺寸 W*D*H mm	20.5*20.5*15.5	31.5*31.5*20.5
Maximum output 最大輸出功率 VA	15	80
Drawing No.圖紙號	Figure 1	Figure 2

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: EFD Series Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Compatible with multiple output switch-mode power supplies •High-power output •Low-profile •RoHS Compliance 	<p>磁芯形狀: EFD 系列 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •適用於多組輸出的開關電源 •高功率輸出 •產品高度小 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

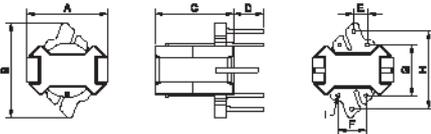
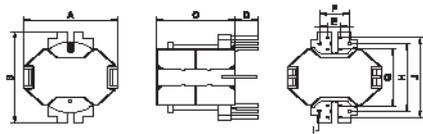


Electronical characteristics / 電氣特性

Core shape 磁芯形狀	EFD-15/15/5	EFD-20/20/7	EFD-25/25/9	EFD-30/30/9
Bobbin type 線架類型	Horizontal/臥式	Horizontal/臥式	Horizontal/臥式	Horizontal/臥式
No. of Terminals 針腳數	4+4	4+4	5+5	6+6
Dimension 尺寸mm				
Max. A	17.0	22.0	27.0	32.0
Max. B	18.0	23.0	28.0	33.0
Max. C	9.5	11.0	15.0	14.0
±0.3 D	3.75	5.0	5.0	5.0
±0.5 E	13.75	17.5	22.5	27.4
±0.1ΦF	0.6	0.6	0.8	0.8
Maximum output 最大輸出功率 VA	5.0	18.0	45.0	70.0

Note: The design bases on: 1.Forward model 2.PC40 series ferrite 3.Switching frequency: 100 KHz
 注意: 本設計基于 1.正激式變換器 2.PC40系列鐵氧體 3.開關頻率:100 KHz

Switching power transformer / 開關電源變壓器

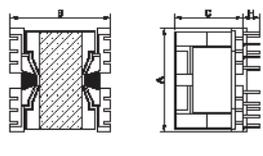
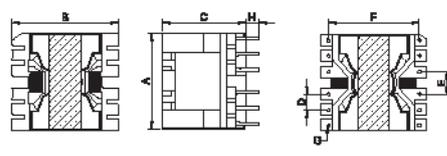
	<p>Core shape: RM series</p> <p>Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Optimized magnetic shield for low interference •High performance •High-power output •Safety standards approved •RoHS Compliance 	<p>磁芯形狀:RM 系列</p> <p>特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •產品具有良好的屏蔽性能 •高性能的設計 •輸出功率高 •符合安全標準 •符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p>		
 <p style="text-align: center;">Figure 1</p>		 <p style="text-align: center;">Figure 2</p>

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	RM-4	RM-5	RM-6	RM-8	RM-10
Bobbin type 線架類型	Vertical/立式	Vertical/立式	Vertical/立式	Vertical/立式	Vertical/立式
No.of Terminals 針腳數	3+3	3+3	3+3	6+6	6+6
Dimension 尺寸mm					
Max. A	13.0	16.5	20.3	27.0	31.0
Max. B	13.5	17.0	20.3	25.0	29.0
Max. C	11.0	11.0	13.0	17.5	20.5
Min. D	3.0	3.0	3.0	3.0	3.0
±0.3 E	1.8	1.8	1.8	3.6	3.6
±0.3 F	3.6	3.6	3.6	7.2	7.2
±0.5 G	7.2	10.8	14.4	14.4	18.0
±0.5 H	10.8	14.4	18.0	18.0	21.6
±0.1 φI	0.5	0.5	0.5	0.6	0.6
±0.5 J				21.6	25.2
Center leg area 磁芯中柱面積A _e mm ²	13.9	23.6	37.1	64.0	102.4
Maximum output 最大輸出功率 VA	10	20	40	80	90
Drawing No. 圖紙號	Figure 1			Figure 2	

Note: The design bases on: 1.Flyback model 2.PC40 series ferrite 3.Switching frequency: 200 KHz
 注意: 本設計基于 1.反激式變換器 2.PC40系列鐵氧體 3.開關頻率:200 KHz

Switching power transformer / 開關電源變壓器

	<p>Core shape: PQ series Features:</p> <ul style="list-style-type: none"> •Low-loss/ High saturation magnetic flux density ferrite •Optimized magnetic shield for low interference •High performance •High-power output •Compatible with multiple output switch-mode power supplies •Safety standards approved •RoHS Compliance 	<p>磁芯形狀: PQ 系列 特性:</p> <ul style="list-style-type: none"> •採用低損耗高飽和磁通密度鐵氧體磁芯進行設計 •產品具有良好的屏蔽性能 •高性能的設計 •輸出功率高 •產品適用於多組輸出的開關電源 •符合安全標準 •符合RoHS標準
<h3>Shape and external dimension / 機械尺寸mm.</h3>		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> </div>		

Electrical characteristics / 電氣特性

Core shape 磁芯形狀	PQ20/20	PQ26/20	PQ26/25	PQ32/20	PQ32/30	PQ35/35	PQ40/40	PQ50/50
Bobbin type 線架類型	V/立式	V/立式	V/立式	V/立式	V/立式	V/立式	V/立式	V/立式
No. of Terminals 針腳數	14(8+6)	12	12	12	12	12	12	12
Dimension 尺寸mm								
Max. A	24.0	28.0	28.5	33.0	33.0	37.0	41.0	52.0
Max. B	24.0	32.0	31.0	35.0	36.0	41.0	44.0	53.0
Max. C	22.0	22.0	28.0	24.0	32.0	38.5	43.0	54.0
±0.3 D	2.5/3.8	3.8	3.8	5.0	5.05	5.0	5.0	7.62
±0.5 E	5.1	7.6	7.5	7.5	7.6	10.0	15.1	15.24
±0.5 F	20.3	25.4	25.5	30.0	30.3	35.0	38.0	45.72
±0.1 ΦG	0.6	0.6	0.7	0.8	0.8	0.8	0.8	1.2
Min. H	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Center leg area 磁芯中柱面積Ae mm ²	61.4	120.1	121.4	163.6	161.0	196.0	201.0	320.0
Maximum output 最大輸出功率 VA	92	170	195	232	331	452	596	1045
Drawing No. 圖紙號	Figure 1	Figure 2						

Note: The design bases on: 1. Forward model 2. PC40 series ferrite 3. Switching frequency: 100 KHz
 注意: 本設計基于 1. 正激式變換器 2. PC40系列鐵氧體 3. 開關頻率: 100 KHz

Photoflash capacitor charging transformer / 數碼相機閃光燈專用變壓器



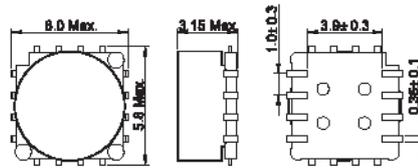
Core shape: DR & P Type
Features:

- Low-profile
- Low-leakage inductance
- Operating temperature: -20°C~110°C
- Surface-mounted
- RoHS Compliance

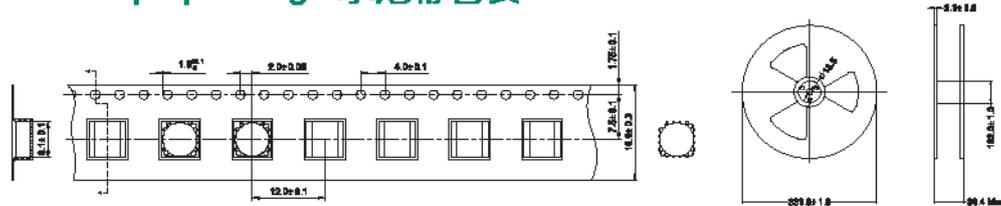
磁芯形狀: DR & P型
特性:

- 產品高度小
- 泄漏電感低
- 工作溫度: -20°C~110°C
- 封裝形式: 表面安裝
- 符合RoHS標準

Shape and external dimension / 機械尺寸mm.



Blister tape packing / 水泡帶包裝 Unit:mm



Electronical characteristics / 電氣特性

Model 型號	GB2714	GB2513	GB0049	GB0069	GB0050	GB0042	GB0038
Inductance(Primary) 初級電感量 uH±20%	16.1	8.5	10.0	10.0	9.9	18.5	10.0
Inductance(Secondary) 次級電感量 mH Ref.	3.6	0.8	2.2	6.3	2.2	4.7	6.4
DC Resistance Max Np mΩ	392	370	250	250	252	416	250
Ns Ω	65.0	20.0	52.1	85.4	52.1	75.8	85.4
Turn ratio Np :Ns	1:15	1:10.2	1:15	1:25	1:15	1:17	1:25
Withstanding voltage Primary-Secondary 耐電壓(初級-次級) Vrms	500	500	500	500	500	500	500
External dimension 外觀尺寸 W*D*H mm	6*5.8*3.15	6*5.8*3.15	6*5.8*3.15	6*5.8*3.15	6*5.8*3.15	6*5.8*3.15	6*5.8*3.15

Common choke / 共模電感



Core shape: UU Type
Features:

- High response frequency
- Approximately 1% stray inductance for symmetrical interference suppression
- Low leakage due to the closed ferrite core
- High pulse strength
- Low whirring noise
- RoHS compliance

磁芯形狀: UU 型
特性:

- 頻率響應範圍寬
- 兩繞組之間的電感量偏差約為1%, 可有效抑制電磁干擾
- 採用閉合磁芯設計, 產品的漏感更低
- 脈沖强度高
- 低噪聲
- 符合RoHS標準

Shape and external dimension / 機械尺寸mm.

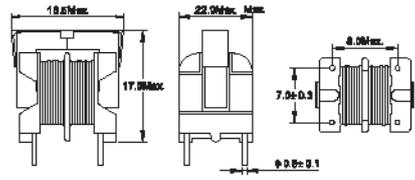


Figure 1

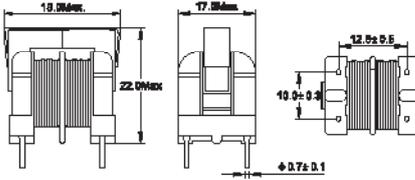


Figure 2

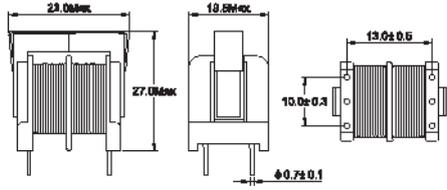
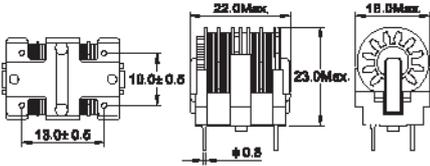
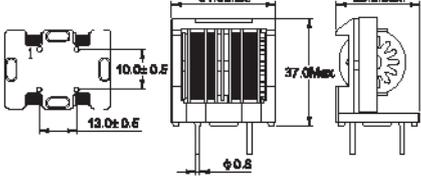


Figure 3

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	UU-9.8 Series										UU-10.5 Series										UU-15.7 Series										
Bobbin type 線架類型	Vertical/立式																														
No. of Terminals 針腳數	4																														
Inductance 電感量 (mH) Min.	70.0	30.0	15.0	10.0	5.0	3.5	2.0	1.0	0.5	0.2	10	5.0	5.0	4.0	3.0	2.0	1.0	1.0	1.0	0.6	30.0	20.0	20.0	10.0	8.0	6.0	6.0	4.0	3.5	2.5	1.5
Rated Current 額定電流 (A)	0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.5	2.0	0.3	0.3	0.5	0.7	1.0	1.0	1.0	1.3	1.5	2.0	0.4	0.4	0.5	0.6	0.8	0.8	1.0	1.0	1.2	1.2	1.5
DC Resistance 直流電阻 Max.Ω	TBD	6.5	2.5	1.5	0.9	0.6	0.25	0.18	0.12	0.08	3.0	2.0	1.5	1.0	0.5	0.5	0.4	0.3	0.2	0.15	2.8	2.2	1.6	1.2	0.8	0.7	0.5	0.4	0.3	0.25	0.15
Drawing No. 圖紙號	Figure 1										Figure 2										Figure 3										

Common choke / 共模電感

	<p>Core shape: UT & ET Type Features:</p> <ul style="list-style-type: none"> • High response frequency • Approximately 1% stray inductance for symmetrical interference suppression • Low leakage due to the closed ferrite core • High pulse strength • Low whirring noise • RoHS compliance 	<p>磁芯形狀: UT & ET 型 特性:</p> <ul style="list-style-type: none"> • 頻率響應範圍寬 • 兩繞組之間的電感量偏差約為1%, 可有效抑制電磁干擾 • 採用閉合磁芯設計, 產品的漏感更低 • 脈沖强度高 • 低噪聲 • 符合RoHS標準
<p>Shape and external dimension / 機械尺寸mm.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="300 703 730 869">  <p>Figure 1</p> </div> <div data-bbox="868 703 1289 882">  <p>Figure 2</p> </div> </div>		

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	UT-20 Series										ET-28 Series		
Bobbin type 線架類型	Vertical/立式										Vertical/立式		
No. of Terminals 針腳數	4										4		
Rated Voltage 額定電壓 V	250	250	250	250	250	250	250	250	250	250	250	110/ 120	Customer -design available 可以照客 戶的要求 進行定製
Rated Current 額定電流 A	0.3	0.4	0.5	0.7	0.8	1.0	1.0	1.2	1.5	1.8	1.0	1.5	
DC Resistance 直流電阻 Max. Ω	2.5	1.7	1.2	0.75	0.53	0.38	0.31	0.18	0.14	0.12	0.25	1.55	
Inductance 電感量 (mH) Min.	33.0	22.0	15.0	10.0	6.8	4.7	3.3	2.2	1.5	0.75	22.0	4.7	
Drawing No. 圖紙號	Figure 1										Figure 2		

Common choke / 共模電感

	Core shape: Ring Type Features: <ul style="list-style-type: none"> •High response frequency •Approximately 1% stray inductance for symmetrical interference suppression •Low leakage due to the closed ferrite core •High pulse strength •Low whirring noise •RoHS compliance 	磁芯形狀:環型 特性: <ul style="list-style-type: none"> •頻率響應範圍寬 •兩繞組之間的電感量偏差約為1%,可有效抑制電磁干擾 •採用閉合磁芯設計, 產品的漏感更低 •脈沖强度高 •低噪聲 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.

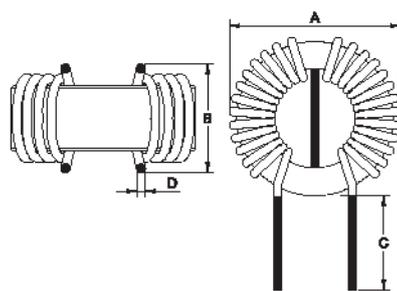


Figure 1

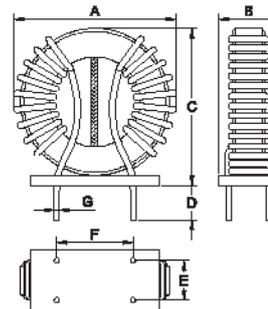


Figure 2

Electronical characteristics / 電氣特性

Core shape 磁芯形狀	T14*9*5	T14*8*7	T16*12*8	T16*12*8		T16*12*8	T31*19*13	T31*19*27	T36*23*15	T42*28*16	
Dimension 尺寸mm					Note: Inductance testing condition/ 電感量測試條件 1.0KHz 0.25V						Note: Inductance testing condition/ 電感量測試條件 1.0KHz 0.25V
Max. A	16.0	17.0	19.0	20.0		28.0	36.0	41.0	43.0	55.0	
Max. B	7.0	11.5	12.0	13.0		20.3	23.0	42.0	25.0	37.0	
Min. C	15.0	15.0	15.0	15.0							
±0.05φ D	0.3	0.4	0.3	0.6							
Max. C						25.0	36.0	38.0	40.0	54.0	
Min. D						3.0	3.0	3.0	3.0	3.0	
±0.5 E						15.5	17.5	21.5	17.5	24.0	
±0.3 F						10	12.5	30.5	31.0	18.0	
±0.1φ G					Custom-design available / 可以 依照客戶的要求 進行設計	1.0	1.3	2.3	1.2	2.2	Custom-design available / 可以 依照客戶的要求 進行設計
Rated Current 額定電流 A	0.3	0.5	0.3	1.1		3.2	6.3	16.5	5.2	16.0	
Rated Voltage 額定電壓 V	250	250	250	250		250	250	250	250	250	
DC Resistance 直流電阻 Max.Ω	0.25	0.15	0.45	0.12		90.0	20.0	5.0	7.0	6.0	
Inductance 電感量 (mH) Min.	6.0	4.5	9.0	5.0		1.6	5.0	2.3	1.0	4.8	
Drawing No.圖紙號	Figure 1					Figure 2					

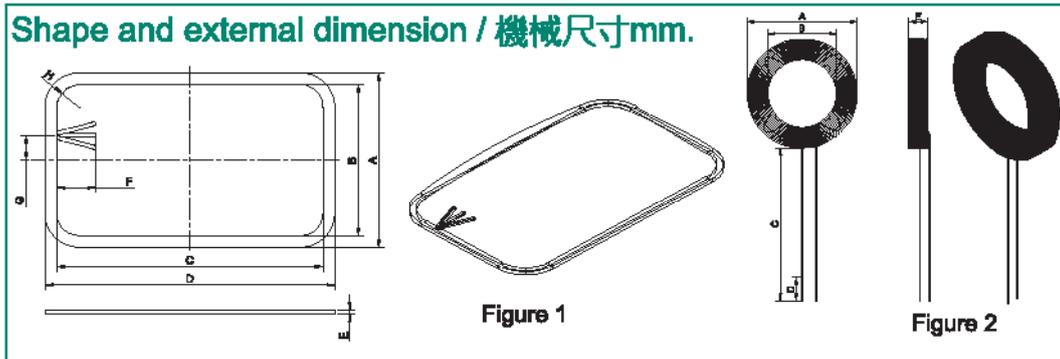
Smart card coil / 智能卡感應線圈

	<ul style="list-style-type: none"> •Applications: Smart card & smart ticket •Available in custom-made models and specifications •RoHS Compliance 	<ul style="list-style-type: none"> •應用範圍: 智能卡 智能車票 •可依照客戶的使用要求進行設計 •產品符合RoHS標準
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Coin Coils / 硬幣感應線圈

	<ul style="list-style-type: none"> •Applications: Coin Changer, Public Phone, Vending Machine •Available in custom-made models and specifications •RoHS Compliance 	<ul style="list-style-type: none"> •應用範圍: 自動投幣機, 公用電話, 自動售貨機 •可依照客戶的使用要求進行設計 •產品符合RoHS標準
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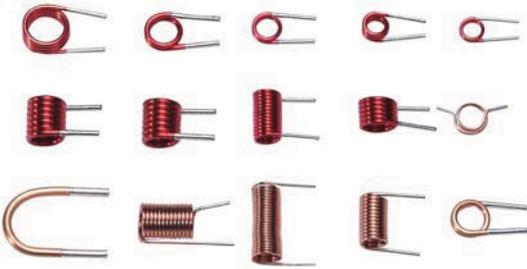
Shape and external dimension / 機械尺寸mm.



Electronical characteristics / 電氣特性

Model 型號	GBC-0455	GBC-0378	GBC-0308	GBC-02841
Dimension 尺寸mm				
Max. A	48.5	44.0	16.5	14.8
Max. B	42.5	40.5	10.5	10.4
Max. C	69.2	71.0		
Max. D	75.0	74.9		
±2.0 C			30.0	30.0
Ref. D			5.0	5.0
Max. E	0.7	1.0	6.0	5.7
±0.2 F	10.0	10.0		
Ref. G	6.4	6.4		
Ref. H	R9.0	R9.0		
Inductance 電感量(N1)uH Ref.	42	40	350	2000
DC Resistance 直流電阻(N1)Ω Max.	3.15	2.55	3.1	22.0
Turns ratio 圈數比例 N1:N2	1: 1	1: 1		
Drawing No. 圖紙號	Figure 1		Figure 2	

Spring coil / 空芯線圈

	<p>Features:</p> <ul style="list-style-type: none"> •High Q characteristics •Package type: PTH (pin through hold) •Custom-design is available •RoHS Compliance <p>Applications:</p> <ul style="list-style-type: none"> •Oscillatory circuit •High frequency circuit •High frequency amplifier •Radio frequency head 	<p>特性:</p> <ul style="list-style-type: none"> •品質因數Q值高 •針腳封裝形式: 直插式 •可依據客戶的要求進行設計 •產品符合RoHS 標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •振蕩電路 •高頻電路 •高頻放大器 •高頻頭
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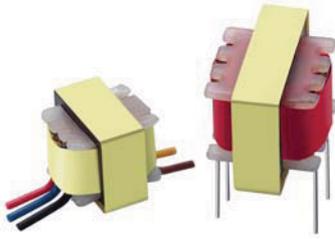
SMD Hollow coil / 貼片類空芯線圈

	<p>Features:</p> <ul style="list-style-type: none"> •High Q characteristics •Package type: SMD •Custom-design is available •RoHS Compliance <p>Applications:</p> <ul style="list-style-type: none"> •Oscillatory circuit •High frequency circuit •High frequency amplifier •Radio frequency head 	<p>特性:</p> <ul style="list-style-type: none"> •品質因數Q值高 •針腳封裝形式: 表面安裝 •可依據客戶的要求進行設計 •產品符合RoHS 標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •振蕩電路 •高頻電路 •高頻放大器 •高頻頭
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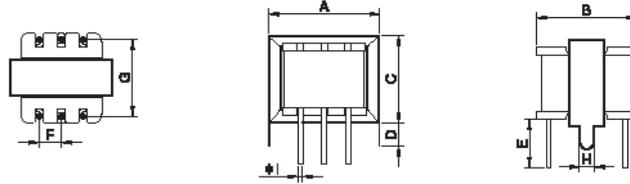
Jumper wire/ 跳線

	<p>Features:</p> <ul style="list-style-type: none"> •Low DC resistance •Various design for special applications •Custom-made is available •RoHS compliance <p>Applications:</p> <ul style="list-style-type: none"> •Current sense •Jumper wire used in DC motors •Jumper wire used in PCB circuit •Antenna 	<p>特性:</p> <ul style="list-style-type: none"> •直流電阻低 •多樣式的設計以滿足各種特殊應用 •可依據客人要求定製 •符合RoHS標準 <p>應用範圍:</p> <ul style="list-style-type: none"> •電流採樣端子 •直流馬達延長線 •PCB板用跳線 •天線
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Audio transformer / 音頻變壓器

	Core shape: EI lamination series Features: <ul style="list-style-type: none"> •To correctly match a valve output stage to a low impedance loudspeaker •Frequency response: 20Hz to 20kHz •Greatly affect both the sound quality and measured performance due to quality steel sheet •RoHS Compliance 	磁芯形狀: EI 疊片系列 特性: <ul style="list-style-type: none"> •阻抗匹配 •頻率響應範圍: 20Hz to 20kHz •採用優質硅鋼片或鎳鋼片設計, 產品性能優良 •符合RoHS標準
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Shape and external dimension / 機械尺寸mm.



Core shape 磁芯形狀	EI-14	EI-16	EI-19	EI-24	
Dimension 尺寸mm					
Max. A	15.5	18.0	21.0	25.5	
Max. B	12.0	16.0	14.5	17.0	
Max. C	11.0	14.0	16.5	19.0	
Ref. D	3.8	4.0	4.2	4.8	
Min. E	5.0	5.0	5.0	5.0	
Ref. F	2.5	2.8	3.0	4.5	
Ref. G	13.0	13.0	13.0	14.0	
Ref. H	2.0	2.2	2.2	2.6	
$\pm 0.1 \phi I$	0.5	0.5	0.5	0.5	
Impedance 阻抗 $\Omega \pm 15\%$ @ 1KHz	Pri.	600	500	600	600
	Sec.	600	500	600	600
DC Resistance Ω Max.	Pri.	55.0	36.0	80.0	80.0
	Sec.	50.0	35.0	66.0	66.0

Linear power supply transformer / 線性電源變壓器

	Features: <ul style="list-style-type: none"> •Low watt loss due to the quality steel sheet •Low exciting current and low no-load loss •High working efficiency •Small temperature rise •Safety standards approved •RoHS Compliance 	特性: <ul style="list-style-type: none"> •採用優質硅鋼片或鎳鋼片設計, 產品功率損耗低 •空載電流小, 空載損耗低 •效率高, 溫升低 •符合安全標準 •符合RoHS標準
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Specification 規格型號	EI-28*12	EI-28*12	EI-35*11.5	EI-35*13.5	EI-35*15	EI-41*16	EI-41*20	EI-48*24	EI-48*30	EI-57*30	EI-66*28
Input voltage 輸入電壓 AC / V	220/50Hz	220/50Hz	230/50Hz	110/220/50Hz	230/50Hz	220/50Hz	100/120/60Hz	100/120/60Hz	230/50Hz	220/50Hz	220/50Hz
Output voltage 輸出電壓 AC / V	120/100mA	10.0	9.0	7.0	10.0	12.0	6.0	6.0,9V,12V	8.0*2	8.0*2/1.5A	12.0
Maximum output 最大輸出功率 VA	1.2	2.0	2.0	2.5	3.0	3.6	10.0	15.0	20.0	25.0	30.0