



Sichuan Chongzhou Hengda Electronic Factory

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Varnished CRGO Toroidal Cores

Material	BV	CV	DV	BDV
Thickness	0.35mm	0.30mm	0.27mm	0.23mm
Iron Loss (P1.5/50)	2.0W/Kg	1.5W/Kg	1.0W/Kg	0.85W/Kg
Special Treatment to improve electronic data		1) Annealed with Nitrogen and Hydrogen in advanced vacuum annealing furnaces 2) Welded by Laser Welding to achieve a high accuracy		
Remark: 1 .The above all are only fit for our normal toroidal core data in different series, the detailed information subjection to our Technical Parameter Confirmation on a given Model No. 2. Any Dimensions available.				



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The List of Linear Toroidal Transformers

(More Sizes and VA Available)

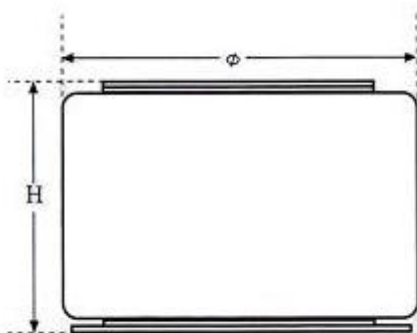
Rated Volume (VA)	Type I		Type II		Type III	
	Dimension H×Φ(mm)	Installation a×b(mm)	Dimension H×Φ(mm)	Installation a×b(mm)	Dimension H×Φ(mm)	Installation a×b(mm)
6	28×65	55×55	33×58	45×45	40×51	45×45
8	33×65	55×55	38×61	45×45		
10	30×78	70×70	33×70	55×55	38×62	55×55
12	32×81	70×70	34×70	55×55	39×65	55×55
15	33×82	70×70	35×72	60×60	40×66	55×55
18	34×83	70×70	40×71	60×60	50×68	55×55
25	35×88	70×70	40×78	60×60	50×72	60×60
40	33×105	85×85	36×92	78×78	41×90	70×70
50	34×107	85×85	45×95	78×78	50×90	70×70
60	50×95	78×78	55×85	70×70		
80	52×100	78×78	55×93	70×70	70×78	60×60
100	52×105	85×85	55×98	78×78	65×85	70×70
120	52×110	85×85	68×102	78×78	75×85	70×70
160	57×115	95×95	65×110	85×85	70×112	85×85
200	60×128	105×105	72×115	85×85	82×108	85×85
250	63×132	105×105	75×118	95×95	83×112	85×85
320	65×135	105×105	75×130	105×105	80×118	95×95
360	78×130	105×105	83×125	95×95		
400	65×138	105×105	80×135	105×105	93×120	95×95
500	78×137	115×115	80×140	115×115	88×135	105×105
600	78×155	135×135	85×145	115×115	93×145	105×105
800	80×170	140×140	98×150	120×120	108×140	115×115
1K	90×175	140×140	102×155	130×130	115×142	115×115
1.2K	10×165	130×130				
1.3K	11×170	130×130				
1.5K	11×180	140×140				
2.0K	12×195	160×160				
2.5K	11×225	185×185	135×210	160×160		
3K	138×235	185×185				
3.5K	14×235	185×185				

4K	15×240	185×185				
5K	15×270	220×220				
6K	16×275	220×220				
7K	17×285	250×250				
8K	18×290	250×250				
9K	19×285	250×250				
10 K	19×290	270×270				
12 K	20×295	270×270				
14 K	20×310	270×270				
15 K	20×320	290×290				
17 K	21×345	290×290				
20 K	21×360	290×290				

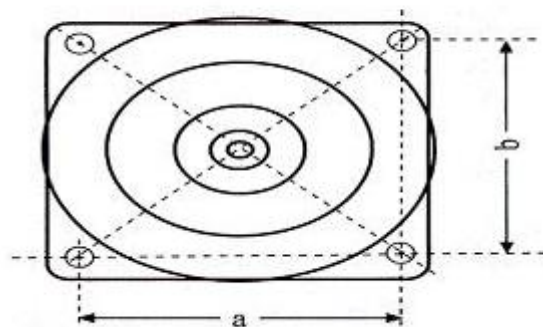
Remark:

1. The above H×Φ is the Max. overall dimension of our normal HDB series transformer with Copper wire Primary & Secondary, the corresponding data of the HDBL series transformer with Aluminum wire Primary & Secondary as well as the HDBLL series transformer with Copper Primary & Aluminum Secondary will only be informed based on your detailed enquiry.
2. All above data are subject to modification without notice in advance.
3. The above data is only part of the normal overall dimensions, the data of 1KVA above will be offered together with our quotation, based on your detailed enquiry.
4. OEM, ODM, Custom designed drawings and samples acceptable, more dimensions of overall and installation available according to customer's special requirement.
5. Installation Styles available: Horizontal (Non-conventional-type base plate), Sunk, Side and Bridge.

Overall Dimension Diagram (mm)



Installation Dimension Diagram(mm)





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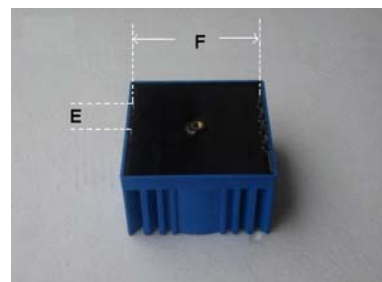
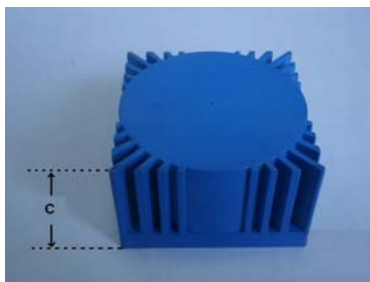
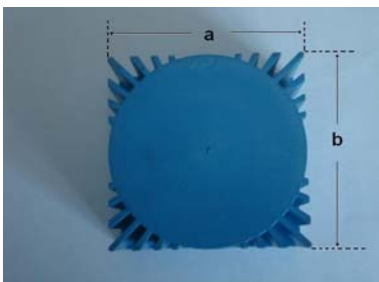
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The List of GO- I Encapsulated Pin Toroidal Transformers

Model No.	Dimension	Pin Distribution		Rated Volume (VA)
	a×b×c(mm)	E(mm)	F(mm)	
GO-1-28	66×66×40	Any	Any	28
GO-2-23	66×66×37	Any	Any	23
GO-3-22	62×62×40	Any	Any	22
GO-4-18	62×62×37	Any	Any	18
GO-5-15	62×62×35	Any	Any	15
GO-6-13	62×62×32	Any	Any	13
GO-7-12	58×58×35	Any	Any	12
GO-8-10	58×58×32	Any	Any	10
GO-9-08	58×58×29	Any	Any	8

Green, Energy-saving & Environment-friendly, Encapsulated PCB Toroidal Transformer is an ideal substitute for traditional encapsulated PCB transformer with high power loss, contributed to the following features: 1) Toroidal Core with the Min. Power Loss ($P_0 \leq 0.9W/Kg$ at $P_{1.5/50}$); 2) Small size, nice appearance, high efficiency, low temperature-rise, anti-mildew, anti-moisture; 3) Patent technology to willfully adjust the pin distribution for easily mounting.





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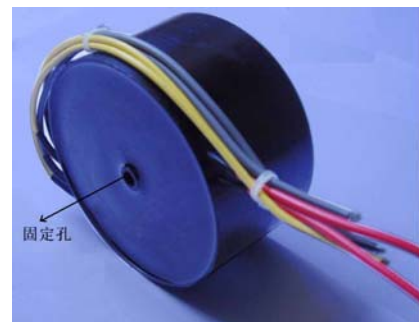
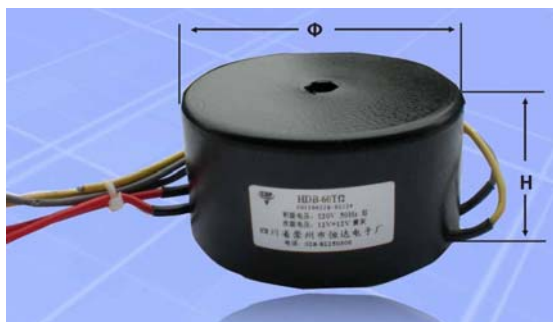
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The List of GO- II Encapsulated Linear Toroidal Transformers

Model No.	H (mm)	ϕ (mm)	Rated Volume (VA)	Efficiency (\geq)
GO- I -40	37	82	40	88%
GO- II -60	41	82	60	90%
GO-III-80	45	92	80	90.2%
GO-IV-100	53	92	100	91%
GO-V -120	53	92	120	92%





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The List of Linear HDB EI Transformers

(More Specifications Available)

Bobbins & Laminations (mm)	Min. Volume (VA)	Installation Distance d/e(mm)	Dimension a×b×c (mm)
02/28×12	1	42	30×25.5×27
02/28×18	2	42	30×33×27
02/35×15	3	45	37×31×32
02/35×18	4	45	37×35×32
02/41×15	5	55	43×33×36
02/41×16.5	6	55	43×37×36
02/41×20	7	55	43×41×36
02/41×25	8	55	43×44×36
02/48×21	9	65	51×39×43
02/48×24	11	65	51×44×43
02/54×21.5	12	65	57×44×48
02/54×25	15	60	57×49×48
02/57×25	20	70	60×45×48
02/57×30	25	72	60×51×51
02/60×25		72	63×51×54
02/60×30	30	75	63×57×54
02/66×28	40	82	69×55×58
02/66×33	50	82	69×60×58
02/76.2×25.5	60	65 (d)×54 (e)	77×55×65
02/76.2×36	80	65 (d)×65 (e)	77×65×65
02/85.8×45	130	72 (d)×80 (e)	86×77×73

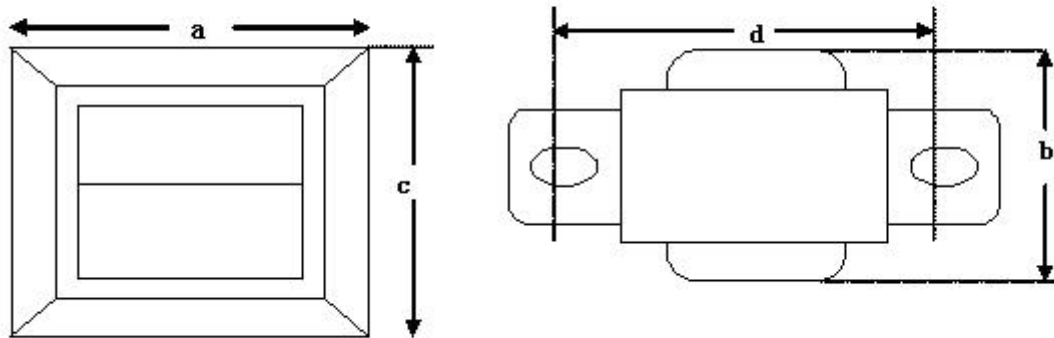
Features:

- 1. EI Core: High Quality Cold Grain Silicon Sheet Inserted by Machine.
- 2. Bobbin: Excellent Anti-combustion.
- 3. Thermal Cutoff and Thermal Switch: Available.

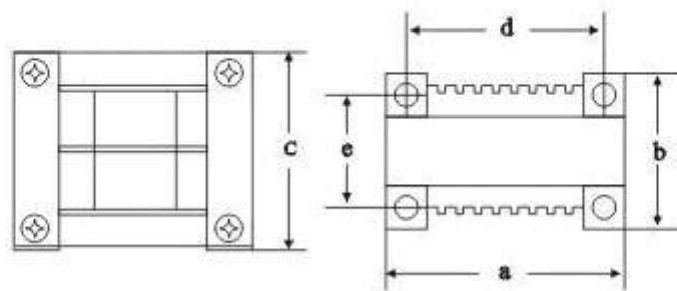
Remark:

- 1. Custom designed drawings and samples acceptable.
- 2. All data are subject to modification without notice in advance.

Overall Dimension (mm) of EI below 40VA



Overall Dimension (mm) of EI above 40VA





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The List of Linear HDBL EI Transformers

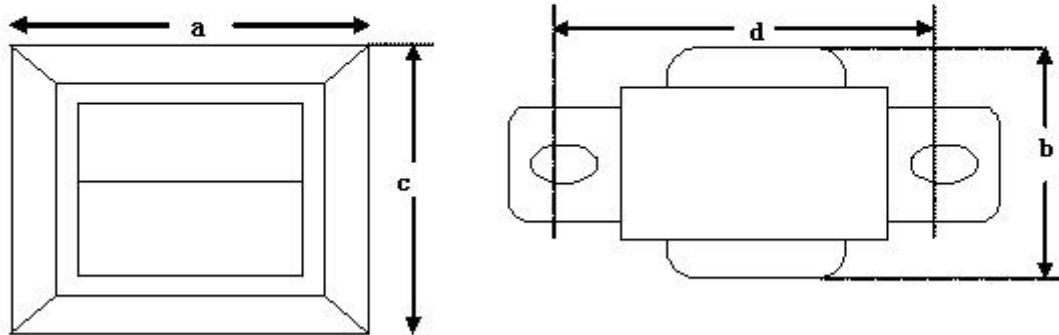
(More Specifications Available)

Bobbins & Laminations (mm)	Min. Volume (VA)	Installation Distance d/e (mm)	Dimension a×b×c (mm)
02/35×15	2.5	45	37×31×32
02/41×15	4	55	43×33×36
02/35×26.5	4.5	55	37×42×32
02/41×20	5	55	43×41×36
02/41×25	6	55	43×44×36
02/48×24	7	65	51×44×43
02/54×21.5	8	70	57×44×48
02/54×25	10	70	57×49×48
02/54×25	12	70	57×49×48
02/60×25	15	72	63×51×54
02/60×30	20	75	63×57×54
02/66×28	30	82	69×55×58
02/66×33	35	82	69×60×58
02/76.2×25.5	40	65(d)×54(e)	77×55×65
02/66×44	45	82	69×70×58
02/76.2×36	55	65(d)×65(e)	77×65×65
02/85.8×45	100	72(d)×80(e)	86×77×73

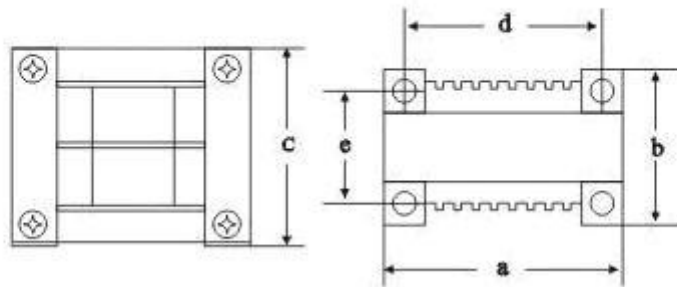
Remark:

1. HDBL refers to the transformer with Copper wire in Primary & Aluminum wire in Secondary.
2. The above Min. Volume refers to the whole output power, the more secondaries, the less output power of each one.
3. Custom-designed drawings and samples acceptable.

Dimension (A)



Dimension (B)





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The List of Pin EI Transformers

(More Specifications Available)

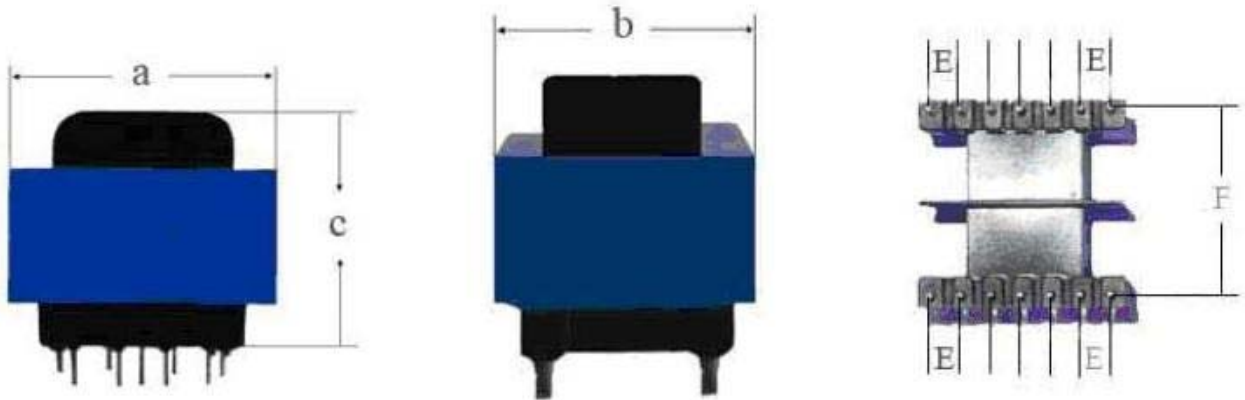
Model No.	Bobbins & Laminations (mm)	Volume (VA)	Dimension a×b×c(mm)	Pin Distance E (mm)	Row Distance F (mm)
HDB-1ZE-X	35×12 (3+4)	2.0	36×31×31	2×7.5 3×5.0	22.1
HDB-2ZE-X	35×13.5 (4+4)	2.5	36×31×32	3×6.3 3×6.3	29.9
HDB-3ZE-X	35×14.5 (4+5)	3.0	36×31×35	3×6.0 4×4.5	21.1
HDB-4ZE-X	35×18 (5+5)	5.0	36×31×35	4×4.7 4×4.7	22.5
HDB-5ZE-X	41×10 (3+3)	3.0	42×34×25	2×9.1 2×9.1	23.7
HDB-6ZE-X	41×13 (6+6)	5.0	42×34×30	5×6.35 5.08+4×6.35	25.0
HDB-7ZE-X	41×17 (5+5)	5.0	42×34×41	4×5.0 4×5.0	22.4
HDB-8ZE-X	41×23 (3+5)	7.0	42×34×45	2×7.7 4×7.7	23
HDB-9ZE-X	48×8 (5+5)	4.0	49×41×24.5	4×7.4 4×7.4	32.3
HDB-10ZE-X	48×13.5 (4+5)	8.0	49×41×29	4×5.2 3×6.8	28.1
HDB-11ZE-X	48×18.5 (5+7)	9.0	49×41×39	4×7.55 6×5.0	28.3
HDB-12ZE-X	54×18.5 (7+7)	12.0	55×46×42	6×4.9 6×4.9	30.7
HDB-15ZE-X	57×30 (7+7)	30.0	58×49×51	6×5.0 6×5.0	32.0
HDB-16ZE-X	48×22 (5+5)	12.0	49×41×40	4×7.5 4×7.5	29.7
HDB-30ZE-X	41×17 (4+5)	6.0	42×34×41	3×7.3 4×5.5	22

HDB-31ZE-X	35×15 (3+4)	3.0	36×31×31	2×7.5 3×6.0	22.0
HDB-32ZE-X	28×12 (3+4)	1.5	29×26×28.1	2×7.5 3×5.0	22.0
HDB-34ZE-X	35×10 (5+5)	2.0	36×31×25.5	4×5.6 4×5.6	21.5
HDB-35ZE-X	48×17 (6+6)	10.0	48×40×35	5×5.0 5×5.0	27
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Remark:

1. "X" refers to volume, which will be replaced by a corresponding digit on the transformer product.
2. HDB refers to the transformer with Copper wire in both Primary & Secondary.
3. The above Min. Volume refers to the whole output power, the more secondaries, the less output power of each one.
4. Custom-designed drawings and samples acceptable.

Overall Dimension (mm)





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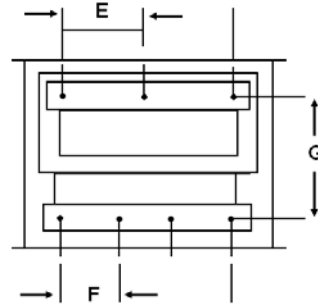
The List of GE Encapsulated Pin EI Transformers

(More Specifications Available)

Model No.	Dimension LXWXH (mm)	Pin Distance (mm)		Row Distance G (mm)	Rated Volum (VA)	Net Weight (g)
		E	F			
GE-1-1VA	31×28×26	2×7.0	2×5.0	20	1	69.7
GE-2-1.5VA	31×28×26	4×4.9	4×4.9	20	1.5	74.6
GE-3-2VA	31×28×30	4×4.9	4×4.9	20	2	89
GE-4-2.5VA	31×28×32	4×4.9	4×4.9	20	2.5	104.1
GE-5-4VA	38×33×32	4×5.6	4×5.6	21.7	4	137.8
GE-6-5VA	38×33×34	4×5.0	4×5.0	21.5	5	161.9
GE-7-5.5VA	38×33×37	4×5.6	4×5.6	21.7	5	167.7
GE-8-7.5VA	43×36×35	6×5.0	6×5.0	22.5	7	210.7
GE-9-6.5VA	44×36×41	3×7.5	4×5.6	22.5	6	243.7
GE-10-8VA	52×43.5×35. 5	4×7.4	4×7.4	29.7	7	285.4
GE-11-9VA	52×43.5×40. 5	4×7.5	4×7.5	29.4	8	337.5
GE-12-11VA	52×43.5×45	4×7.5	4×7.5	29.5	10	392.0
GE-13-15VA	57×48×40	6×5.0	6×5.0	30.5	15	425.4

Remark:

1. The above Min. Volume refers to the whole output power, the more secondaries, the less output power of each one.
2. Custom-designed drawings and samples acceptable.





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Comparison on Transformers in Different Wires

	HDB Series Copper Transformer	Series of HDBLL、 HDBL Aluminum Transformer
Dimension	Smaller	Bigger
Weld	Good	Well welded based on our Know-how Technology
Performance	Good	Equivalent to Copper
Reliability	Good	Equivalent to Copper
Price	Expensive	Cost Saving 15%-35%

Remarks:

In China mainland, as a pioneer to apply Aluminum Enamel Wire into practice in manufacturing electronic transformer, we found a good solution to weld Aluminum Enamel Wire well, based on our Know-how Technology.



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Comparison on Transformers in Different Shapes of Cores

Shape of Core	EI, R & CD	Toroidal
Dimension	Not Adjustable	Adjustable
Performance	Average	Better
Reliability	Average	Better
Price	Expensive	10%-30% Cost Saved

Remarks:

Since 2000, we have been playing a leading role to replace the types of R, CD, EI with toroidal type for our customers from each part of the world.