

- Six 1:1 isolated windings that can be connected in series or parallel
- Tightly coupled windings
- 500 Vrms isolation between each winding
- Power range: 5 50 Watts as inductor and flyback transformer; up to 150 Watts as forward transformer
- Frequency range up to 1 MHz

These off-the shelf parts can be used to create thousands of configurations, providing a convenient method for designers to create custom magnetics. By connecting the windings in series or parallel, the Hexa-Path components can be configured as inductors, coupled inductors and transformers for use in virtually any application: flyback, buck/boost, push-pull, forward, full and half bridge, Cuk, and SEPIC.

There are six different sizes available with five HP parts and five HPH parts in each size. The HP offers lower DCR and higher Irms ratings. The HPH offers higher inductance and greater energy storage capabilities.



Winding Layouts

12 0

11C

10 C

60

50

4 C

HP1, HP2, HPH1, HPH2

•000

•000

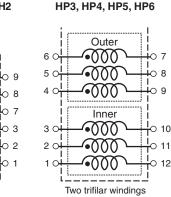
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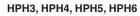
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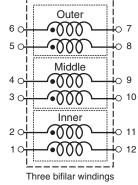
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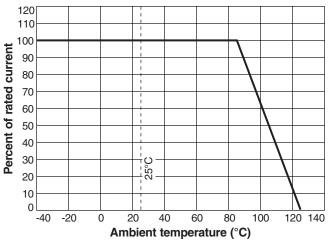
One 6-filar winding











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Document 613-1 Revised 09/18/09



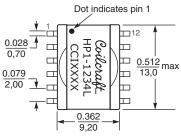
T		0				
Part number ¹	Inductance ² (µH)	DCR max ³ (Ohms)	Volt-time product ⁴ (V-µsec)	Peak energy storage ⁵ (µJ)	Isat ⁶ (A)	Irms ⁷ (A)
HP1-1400L_	89.6 ±25%	0.130	23.4	Note 8	Note 8	0.74
HP1-0190L_	12.2 ±20%	0.130	23.4	29.8	0.440	0.74
HP1-0102L_	6.5 ±15%	0.130	23.4	55.1	0.820	0.74
HP1-0076L_	4.9 ±10%	0.130	23.4	74.7	1.10	0.74
HP1-0059L_	3.8 ±5%	0.130	23.4	93.8	1.40	0.74
HP2-1600L	78.4 ±25%	0.085	30.8	Note 8	Note 8	1.13
HP2-0216L_	10.6 ±20%	0.085	30.8	79.2	0.770	1.13
HP2-0116L_	5.7 ±15%	0.085	30.8	184	1.60	1.13
HP2-0083L_	4.1 ±10%	0.085	30.8	228	2.10	1.13
HP2-0066L_	3.2 ±5%	0.085	30.8	252	2.50	1.13
HP3-0950L_	77.0 ±25%	0.055	30.4	Note 8	Note 8	1.73
HP3-0138L_	11.2 ±20%	0.055	30.4	59.6	0.650	1.73
HP3-0084L_	6.8 ±15%	0.055	30.4	111	1.14	1.73
HP3-0055L_	4.5 ±10%	0.055	30.4	156	1.66	1.73
HP3-0047L_	3.8 ±5%	0.055	30.4	173	1.90	1.73
HP4-1150L_	93.2 ±25%	0.055	47.3	Note 8	Note 8	1.88
HP4-0140L_	11.3 ±20%	0.055	47.3	142	1.00	1.88
HP4-0075L_	6.1 ±15% 4.9 ±10%	0.055	47.3 47.3	307 386	2.00 2.50	1.88 1.88
HP4-0060L_ HP4-0047L	$4.9 \pm 10\%$ 3.8 ±5%	0.055 0.055	47.3	300 490	2.50	1.88
HP5-1200L_	76.8 ±25% 9.9 ±20%	0.045 0.045	62.8	Note 8	Note 8 1.50	2.25 2.25
HP5-0155L_ HP5-0083L	$9.9 \pm 20\%$ 5.3 ±15%	0.045	62.8 62.8	281 562	2.90	2.25
HP5-0067L	$4.3 \pm 10\%$	0.045	62.8	626	2.90 3.40	2.25
HP5-0053L	$3.4 \pm 5\%$	0.045	62.8	946	4.70	2.25
HP6-2400L	86.4 ±25%	0.020	87.9	Note 8	Note 8	3.50
HP6-0325L	$11.7 \pm 20\%$	0.020	87.9	332	1.50	3.50
HP6-0158L	5.69±15%	0.020	87.9	981	3.70	3.50
HP6-0121L	4.36±10%	0.020	87.9	1485	5.20	3.50
HP6-0090L	3.24 ±5%	0.020	87.9	1833	6.70	3.50
HPH1-1400L_	202 ±25%	0.340	35.1	Note 8	Note 8	0.62
HPH1-0190L_		0.340	35.1	31.1	0.300	0.62
HPH1-0102L_	14.7 ±15%	0.340	35.1	60.2	0.570	0.62
HPH1-0076L_	10.9 ±10%	0.340	35.1	99.2	0.850	0.62
HPH1-0059L_	8.5 ±5%	0.340	35.1	107	1.00	0.62
HPH2-1600L_	160 ±25%	0.155	44.0	Note 8	Note 8	0.83
HPH2-0216L_	21.6 ±20%	0.155	44.0	82.3	0.550	0.83
HPH2-0116L_	11.6 ±15%	0.155	44.0	177	1.10	0.83
HPH2-0083L_	8.3 ±10%	0.155	44.0	302	1.70	0.83
HPH2-0066L_	6.6 ±5%	0.155	44.0	333	2.00	0.83
HPH3-0950L_		0.125	43.9	Note 8	Note 8	1.13
HPH3-0138L_	23.6 ±20%	0.125	43.9	52.5	0.420	1.13
HPH3-0084L_ HPH3-0055L_	14.2 ±15% 9.3 ±10%	0.125 0.125	43.9 43.9	98.0 169	0.740 1.20	1.13
HPH3-0047L_	$7.94 \pm 5\%$	0.125	43.9	196	1.40	1.13 1.13
HPH4-1150L	194 ±25%				Note 8	
HPH4-0140L_	$194 \pm 25\%$ 23.7 ±20%	0.078 0.078	68.3 68.3	Note 8 138	0.680	1.65 1.65
HPH4-0075L	$12.7 \pm 15\%$	0.078	68.3	314	1.40	1.65
HPH4-0060L_	$10.1 \pm 10\%$	0.078	68.3	368	1.70	1.65
HPH4-0047L_	7.94 ±5%	0.078	68.3	529	2.30	1.65
HPH5-1200L	173 ±25%	0.070	94.2	Note 8	Note 8	1.95
HPH5-0155L_	22.3 ±20%	0.070	94.2	248	0.940	1.95
HPH5-0083L_	12.0 ±15%	0.070	94.2	546	1.90	1.95
HPH5-0067L_	9.65±10%	0.070	94.2	700	2.40	1.95
HPH5-0053L_	7.63±5%	0.070	94.2	809	2.90	1.95
HPH6-2400L	194 ±25%	0.030	131.9	Note 8	Note 8	2.90
HPH6-0325L	26.3 ±20%	0.030	131.9	477	1.20	2.90
HPH6-0158L	12.8 ±15%	0.030	131.9	1176	2.70	2.90
HPH6-0121L	9.8 ±10%	0.030	131.9	1783	3.80	2.90
HPH6-0090L	7.29 ±5%	0.030	131.9	1944	4.60	2.90
<i>D.:</i>		L®	Spec	cifications subj	ect to cha	nge witho
Coil	ϲ៱ακ	Γ		se check our w		
	-	11	02 Silver La	ake Road Ca	ary, Illinoi	IS 60013

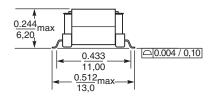
1. Please specif	y termination and packaging codes:
HPH1	-1400 L D
	 L = RoHS compliant tin-silver over tin over nickel over phos bronze. Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).
Packaging:	All but HP6 and HPH6:
0.0	D = 13" machine-ready reel. EIA-481 embossed plastic tape
	 B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
2. Inductance is 0.1 Vrms, 0 A	HP6 and HPH6: 24 per tray (no code) s per winding, measured at 100 kHz,
3. DCR is per w	acc. inding, measured on Cambridge nicro-ohmmeter or equivalent.
 Volt-time pro- windings con time product multiply the v 	duct is for a single winding or multiple nected in parallel. To calculate volt- for windings connected in series, ralue specified in the table by the ndings connected in series.
 Peak energy windings, ass 	storage is for any combination of suming saturation current applied. See finition of saturation current.
 DC current at from its value applied to all applications v series, use th 	which the inductance drops 30% typ without current, based on current six windings connected in series. For where all windings are not connected in the following equation to calculate Isat: $_3 \times 6 \div$ number of windings in series.
7. Current that of due to self he flow through Application te	causes a 40°C rise from 25°C ambient eating, tested with continuous current all windings connected in series. emperature rise will depend on the rrent, duty cycle, and winding
converter trai	ned exclusively for use as a forward nsformer and was not tested for ge and saturation current.
	ecifications at 25°C.
Core material	Ferrite
	RoHS tin-silver over tin over os bronze. Other terminations ditional cost.
current, +85°Ċ	Derature -40°C to +85°C with Irms to +125°C with derated current
+125°C. Packa	erature Component: -40°C to aging: -40°C to +80°C
40 second refl	o soldering heat Max three ows at +260°C, parts cooled to ture between cycles
Moisture Sensificated at <30	sitivity Level (MSL) 1 (unlimited 0°C / 85% relative humidity)
Failures (MTE 38 per billion ho	me (FIT) / Mean Time Between BF) Durs / 26,315,789 hours, Telcordia SR-332
PCB washing recommended	Only pure water or alcohol
ut notice.	

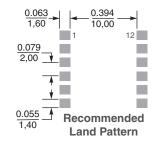
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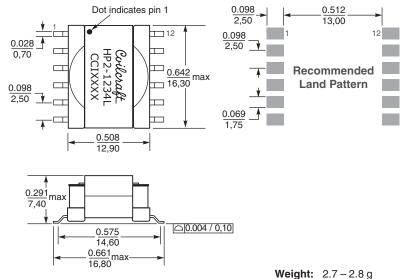




Weight: 1.4 g Packaging 500 per 13" reel Plastic tape: 24 mm wide, 0.5 mm thick, 20 mm pocket spacing, 6.6 mm pocket depth

Dimensions are in $\frac{inches}{mm}$

HP2, HPH2



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

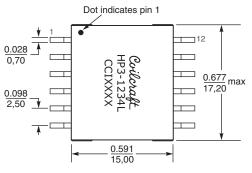
Packaging 400 per 13" reel Plastic tape: 32 mm wide, 0.4 mm thick, 20 mm pocket spacing, 7.6 mm pocket depth

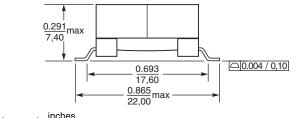
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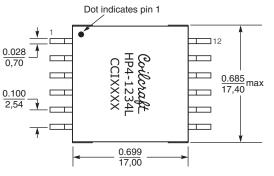


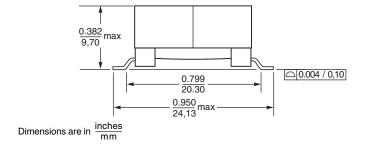


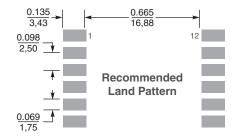


Dimensions are in $\frac{\text{inches}}{\text{mm}}$

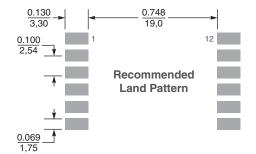
HP4, HPH4







Weight: 4.2 – 4.6 g Packaging 200 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth



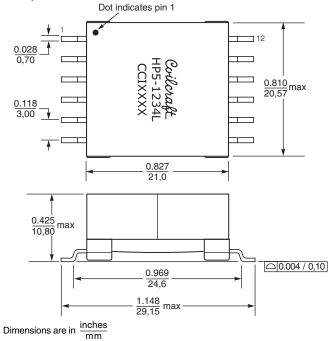
Weight: 6.8 – 7.5 g Packaging 200 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 24 mm pocket spacing, 10.56 mm pocket depth

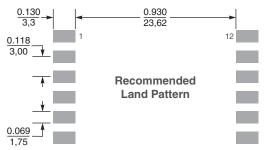
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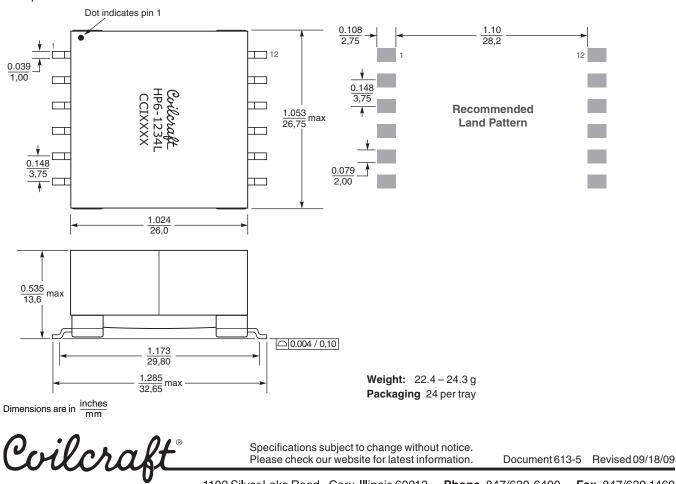
NEW! Hexa-Path Magnetics HP5, HPH5





Weight: 10.6 – 11.5 g Packaging 175 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 28 mm pocket spacing, 12.0 mm pocket depth







Formulas used to calculate electrical characteristics

Connecting windings in series

 $\label{eq:constraint} \begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \times (number \mbox{ of windings})^2 \\ \mbox{DCR} = \mbox{DCR}_{table} \times number \mbox{ of windings} \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div number \mbox{ of windings connected in series} \\ \mbox{Irms} = \mbox{Irms}_{table} \end{array}$

Connecting windings in parallel

 $\begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \\ \mbox{DCR} = 1 \div [\mbox{number of windings} \times (1 \div \mbox{DCR}_{table})] \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div \mbox{number of windings} \\ \mbox{Irms} = \mbox{Irms}_{table} \times \mbox{number of windings} \end{array}$

Inductors – using multiple windings

Part number	Inductance (µH)	DCR max (Ohms)	Volt-time product (V-µsec)	Peak energy storage (µJ)	Isat (A)	Irms (A)
HP3-0138L_	11.2 ±20%	0.055	30.4	1.656	0.650	1.73

Connecting windings in series

For higher inductance, the windings can be connected in series. As inductance increases, energy storage and Irms remain the same, but DCR increases and Isat decreases.

Example: Calculate new electricals for HP3-0138L with four windings (W_n) connected in series:

Inductance = Inductance_{table} × W_n^2 = 11.2 × 4² = 179.2 µH DCR = DCR_{table} × W_n = 0.055 × 4 = 0.22 Ohms Isat = (Isat_{table}) × 6 ÷ W_n = (0.65 × 6) ÷ 4 = 0.975 A

Irms = Irms_{table} = 1.73 A

Connecting windings in parallel

To increase current ratings, the windings (W_n) can be connected in parallel. DCR decreases, current ratings increase, and inductance remains the same.

Example: Calculate new electricals for HP5-0083L, with three (W_n) windings connected in parallel (equivalent to one winding in series):

Inductance = Inductance_{table}

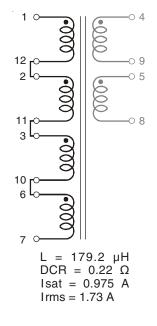
= 11.2 μ H DCR = 1 ÷ [W_n × (1 ÷ DCR_{table})] = 1 ÷ [3 × (1 ÷ 0.045)] = 0.015 Ohms

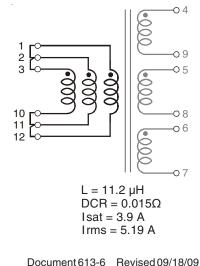
 $Isat = (Isat_{table} \times 6) \div W_n$ $= (0.65 \times 6) \div 1 = 3.9 \text{ A}$

Irms = Irms_{table} \times W_n = 1.73 \times 3 = 5.19 A



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Formulas used to calculate electrical characteristics

Connecting windings in series

Inductance = Inductance_{table} × (number of windings)² DCR = DCR_{table} × number of windings Isat = (Isat_{table} × 6) \div number of windings connected in series Irms = Irms_{table}

Connecting windings in parallel

 $\begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \\ \mbox{DCR} = 1 \div [\mbox{number of windings} \times (1 \div \mbox{DCR}_{table})] \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div \mbox{number of windings} \\ \mbox{Irms} = \mbox{Irms}_{table} \times \mbox{number of windings} \end{array}$

Create a 13 Watt 2:1:1 flyback transformer with a bias winding

Choose HPH3-0138L

Vin = 36 - 57 Vdc; Vout = 12 V, 1.1 A

Part number	Inductance (µH)	DCR max (Ohms)	Volt-time product (V-µsec)	Peak energy storage (µJ)	Isat (A)	Irms (A)
HPH3-0138L	23.6 ±20%	0.125	43.9	1.457	0.420	1.13

Connecting primary windings in series

When primary windings (W_{pri}) are connected in series, inductance increases, energy storage and Irms remain the same, but DCR increases and Isat decreases.

Example: For HPH3-0138L, connect two primary windings in series:

Inductance = Inductance_{table} × W_{pri^2} = 23.6 × 2² = 94.4 µH

 $\begin{aligned} \text{DCR} &= \text{DCR}_{\text{table}} \times \text{W}_{\text{pri}} \\ &= 0.125 \times 2 = 0.25 \text{ Ohms} \end{aligned}$

Isat = $(Isat_{table} \times 6) \div W_{pri}$ = $(0.42 \times 6) \div 2 = 1.26 \text{ A}$

Irms = Irmstable = 1.13 A

Connecting secondary windings in parallel

When secondary windings (W_{sec}) are connected in parallel, DCR decreases and Irms increases.

Example: For HPH3-0083L, connect two secondary windings in parallel:

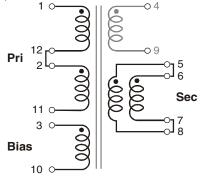
DCR = 1 ÷ $[W_{sec} \times (1 \div DCR_{table})]$ = 1 ÷ $[(2 \times (1 \div 0.125)] = 0.0625$ Ohms

Irms = Irms_{table} \times W_{sec} = 1.13 \times 2 = 2.26 A

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Primary: L = 94.4 μH DCR = 0.25Ω Isat = 1.26 A Irms = 1.13 A **Secondary:** DCR = 0.0625Ω Irms = 2.26 A



Formulas used to calculate electrical characteristics

Connecting windings in series

 $\label{eq:constraint} \begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \times (number of windings)^2 \\ \mbox{DCR} = \mbox{DCR}_{table} \times number of windings \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div number of windings connected in series \\ \mbox{Irms} = \mbox{Irms}_{table} \\ \mbox{Occ} = \mbox{Irms}_{table} \\ \mbox{Occ} = \mbox{Irms}_{table} \\ \mbox{Inductance}_{table} \\ \mbox{Occ} = \mbox{Inductance}_{table} \\ \mbox{Irms}_{table} \\ \mbox{Occ} = \mbox{Inductance}_{table} \\ \mbox{Inductance}_{table} \\ \mbox{Occ} = \mbox{Inductance}_{table} \\ \mbox{Inductance}_{table} \\ \mbox{Inductance}_{table} \\ \mbox{Occ} = \mbox{Inductance}_{table} \\ \mbox{Inductan$

Connecting windings in parallel

 $\begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \\ \mbox{DCR} = 1 \div [\mbox{number of windings} \times (1 \div \mbox{DCR}_{table})] \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div \mbox{number of windings} \\ \mbox{Irms} = \mbox{Irms}_{table} \times \mbox{number of windings} \end{array}$

Create a 130 Watt, 1:1, two switch forward converter transformer

Choose HPH6-2400L

Vin = 36 - 57 Vdc; Vout = 12 V, 10.8 A

Part number	Inductance (µH)	DCR max (Ohms)	Volt-time product (V-µsec)	Peak energy storage (µJ)	Isat (A)	Irms (A)
HPH6-2400L	194 ±25%	0.030	131.9	N/A	N/A	2.90

Connecting primary windings in parallel

When primary windings (W_{pri}) are connected in parallel, DCR decreases, Irms increases, and inductance and volt-time product remain the same.

Example: For HPH6-2400L, connect three primary windings in parallel:

Inductance = Inductance_{table} = 194 μ H DCR = 1 ÷ [W_{pri} × (1 ÷ DCR_{table})] = 1 ÷ [(3 × (1 ÷ 0.030]) = 0.010 Ohms

- VT = VT_{table} = 131.9 V-µsec
- Irms = Irms_{table} \times W_{pri} = 2.90 \times 3 = 8.70 A

Connecting secondary windings in parallel

When secondary windings (W_{sec}) are connected in parallel, DCR decreases and Irms increases.

Example: For HPH6-2400L, connect three secondary windings in parallel:

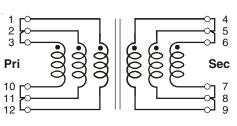
DCR = $1 \div [W_{sec} \times (1 \div DCR_{table})]$ = $1 \div [(3 \times (1 \div 0.030)] = 0.010$ Ohms

Irms = Irms_{table} \times W_{sec} = 2.90 \times 3 = 8.70 A

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 Primary:

 L = 194 μH

 DCR = 0.01Ω

 Irms = 8.7 A

 VT = $131.9 \text{ V-}\mu\text{sec}$

Secondary: DCR = 0.01Ω Irms = 8.7 A



Formulas used to calculate electrical characteristics

Connecting windings in series

Inductance = Inductance_{table} \times (number of windings)² DCR = DCR_{table} × number of windings Isat = $(Isat_{table} \times 6) \div$ number of windings connected in series Irms = Irmstable

Connecting windings in parallel

Inductance = Inductance_{table} $DCR = 1 \div [number of windings \times (1 \div DCR_{table})]$ Isat = $(Isat_{table} \times 6) \div$ number of windings connected in series Irms = Irmstable × number of windings

Create a 100 Watt, 1:2, half bridge forward converter transformer with center tapped secondary

Choose HP6-2400L

Vin = 36 - 57 Vdc; Vout = 24 V, 4.2 A

Part number	Inductance (µH)	DCR max (Ohms)	Volt-time product (V-µsec)	Peak energy storage (µJ)	Isat (A)	Irms (A)
HPH6-2400L	194 ±25%	0.030	131.9	N/A	N/A	2.90

Connecting primary windings in parallel

When primary windings (Wpri) are connected in parallel, DCR decreases, current ratings increase, and inductance and volt-time product remain the same.

Example: For HPH-2400L, connect two primary windings in parallel:

Inductance = Inductance_{table} = 194 µH $DCR = 1 \div [W_{pri} \times (1 \div DCR_{table})]$ $= 1 \div [(2 \times (1 \div 0.030))] = 0.015$ Ohms

= VT_{table} VT = 131.9 V-µsec

 $Irms = Irms_{table} \times W_{pri}$ = 2.90 × 2 = 5.8 A

Connecting secondary windings in series

When secondary windings (Wsec) are connected in series, Irms remains the same, but DCR increases.

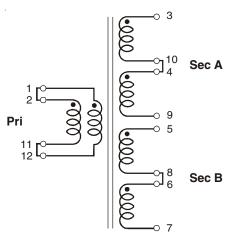
Example: For HP6-2400L, connect four secondary windings in series, creating a center tap at pins 9 and 5. For each half of the secondary:

DCR = DCR_{table} × W_{sec} = 0.030 × 2 = 0.060 Ohms Irms = Irmstable

= 2.9 A

Specifications subject to change without notice. Please check our website for latest information.

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Primary:	Each half secondary;
L = 194 µH	Sec A (3-9), Sec B5-7):
DCR = 0.015Ω	$DCR = 0.06\Omega$
Irms = 5.8 A	Irms = 2.9 A
VT = 131.9 V-µsec	

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Formulas used to calculate electrical characteristics

Connecting windings in series

 $\label{eq:constraint} \begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \times (\mbox{number of windings})^2 \\ \mbox{DCR} = \mbox{DCR}_{table} \times \mbox{number of windings} \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div \mbox{number of windings connected in series} \\ \mbox{Irms} = \mbox{Irms}_{table} \end{array}$

Connecting windings in parallel

 $\begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \\ \mbox{DCR} = 1 \div [\mbox{number of windings} \times (1 \div \mbox{DCR}_{table})] \\ \mbox{Isat} = (\mbox{Isat}_{table} \times 6) \div \mbox{number of windings} \\ \mbox{Irms} = \mbox{Irms}_{table} \times \mbox{number of windings} \end{array}$

Create a 1:1 gate drive transformer

Choose HP1-1400L

Part number	Inductance (µH)	DCR max (Ohms)	Volt-time product (V-µsec)	Peak energy storage (µJ)	Isat (A)	Irms (A)
HP1-1400L	89.6±25%	0.130	23.4	N/A	N/A	0.74

Connecting primary windings in series

When primary windings (W_{pri}) are connected in series, inductance and volt-time product increase, energy storage and Irms remain the same, but DCR increases.

Example: For HPH1-1400L, connect three primary windings in series:

 $\begin{array}{l} \mbox{Inductance} = \mbox{Inductance}_{table} \times \mbox{W}_{pri}^2 \\ = 89.6 \times 3^2 = 806.4 \ \mu \mbox{H} \\ \mbox{DCR} = \mbox{DCR}_{table} \times \mbox{W}_{pri} \\ = 0.130 \times 3 = 0.39 \ \mbox{Ohms} \end{array}$

VT = VT_{table} × W_{pri} = 70.2 V-µsec

 $Irms = Irms_{table} = 0.74$

Connecting secondary windings in series

When secondary windings ($W_{\mbox{sec}})$ are connected in series, Irms remains the same, but DCR increases.

Example: For HP1-1400L, connect three secondary windings in series:

 $\begin{aligned} \text{DCR} &= \text{DCR}_{\text{table}} \times \text{W}_{\text{sec}} \\ &= 0.130 \times 3 = 0.39 \text{ Ohms} \\ \text{Irms} &= \text{Irms}_{\text{table}} \end{aligned}$

 $rms = 1rms_{tab}$ = 0.74

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