



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

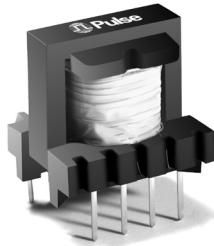
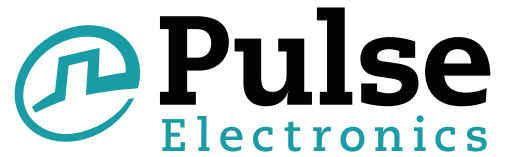
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EE16 Platforms - THT Vertical



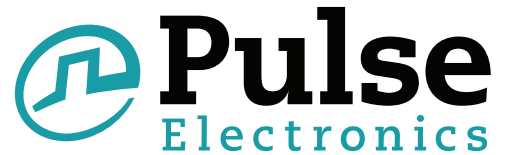
- Ⓢ AC/DC and DC/DC Switching Transformers
- Ⓢ Reinforced Insulation
- Ⓢ 3000Vrms Hi-pot
- Ⓢ Power Range: Up to 60W
- Ⓢ Height: 18.0mm Max
- Ⓢ Footprint: 18.2mm x 16.0mm Max
- Ⓢ Topology: Flyback

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C

PA1931NL	Pri. Inductance	(7-5)	3200.0μH ±10%	<p>FLYBACK TRANSFORMER</p>
	Lk. Inductance	(7-5) with (1-4) shorted	56μH MAX	
	DCR	(7-5)	6400mΩ MAX	
		(4-1)	20mΩ MAX	
		(10-9)	360mΩ MAX	
	Hi-Pot	Pri-Sec	3000 Vrms	
K1 Factor	14692.4			
PA2115NL	Pri. Inductance	(2-1)	1000μH ±15%	<p>FLYBACK TRANSFORMER</p>
	Lk. Inductance	(2-1) with (3,4,5,6,9,10) shorted	40μH MAX	
	DCR	(2-1)	3220mΩ MAX	
		(3-4)	210mΩ MAX	
		(5-6)	70mΩ MAX	
		(10-9)	80mΩ MAX	
Hi-Pot	Pri-Sec	3000 Vrms		
K1 Factor	5611.7			
PA2517NL	Pri. Inductance	(7-5)	1200.0μH ±10%	<p>FLYBACK TRANSFORMER</p>
	Lk. Inductance	(7-5) with (1,4,9,10) shorted	30μH MAX	
	DCR	(7-5)	4950mΩ MAX	
		(4-1)	57.5mΩ MAX	
		(10-9)	915mΩ MAX	
	Hi-Pot	Pri-Sec	3000 Vrms	
K1 Factor	5509.6			
PA2531NL	Pri. Inductance	(1-4)	4.5μH ±12%	<p>FLYBACK TRANSFORMER</p>
	Lk. Inductance	(1-4) with (9-6) shorted	0.21μH MAX	
	DCR	(1-4)	142mΩ MAX	
		(9-6)	73mΩ MAX	
		Pri-Sec	4000 Vrms	
	71.0			
PA2621NL	Pri. Inductance	(5-7)	1000μH ±10%	<p>FLYBACK TRANSFORMER</p>
	Lk. Inductance	(5-7) with (4,3,2,1) shorted	17μH MAX	
	DCR	(5-7)	2430mΩ MAX	
		(4-3)	260mΩ MAX	
		(2-1)	82mΩ MAX	
		(9-10)	89mΩ MAX	
	Hi-Pot	Pri-Sec	4000 Vrms	
K1 Factor	6313.1			

HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EE16 Platforms - THT Vertical



(continued)

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C

PA2655NL	Pri. Inductance	(1-4)	3100 μH ±10%	
	Lk. Inductance	(1-4) (8,7,6,5)	62μH MAX	
	DCR	(1-4)	4200mΩ MAX	
		(5-6)	64mΩ MAX	
		(7-8)	105mΩ MAX	
	Hi-Pot	Pri-Sec	3000 Vrms	
K1 Factor	9687.0			

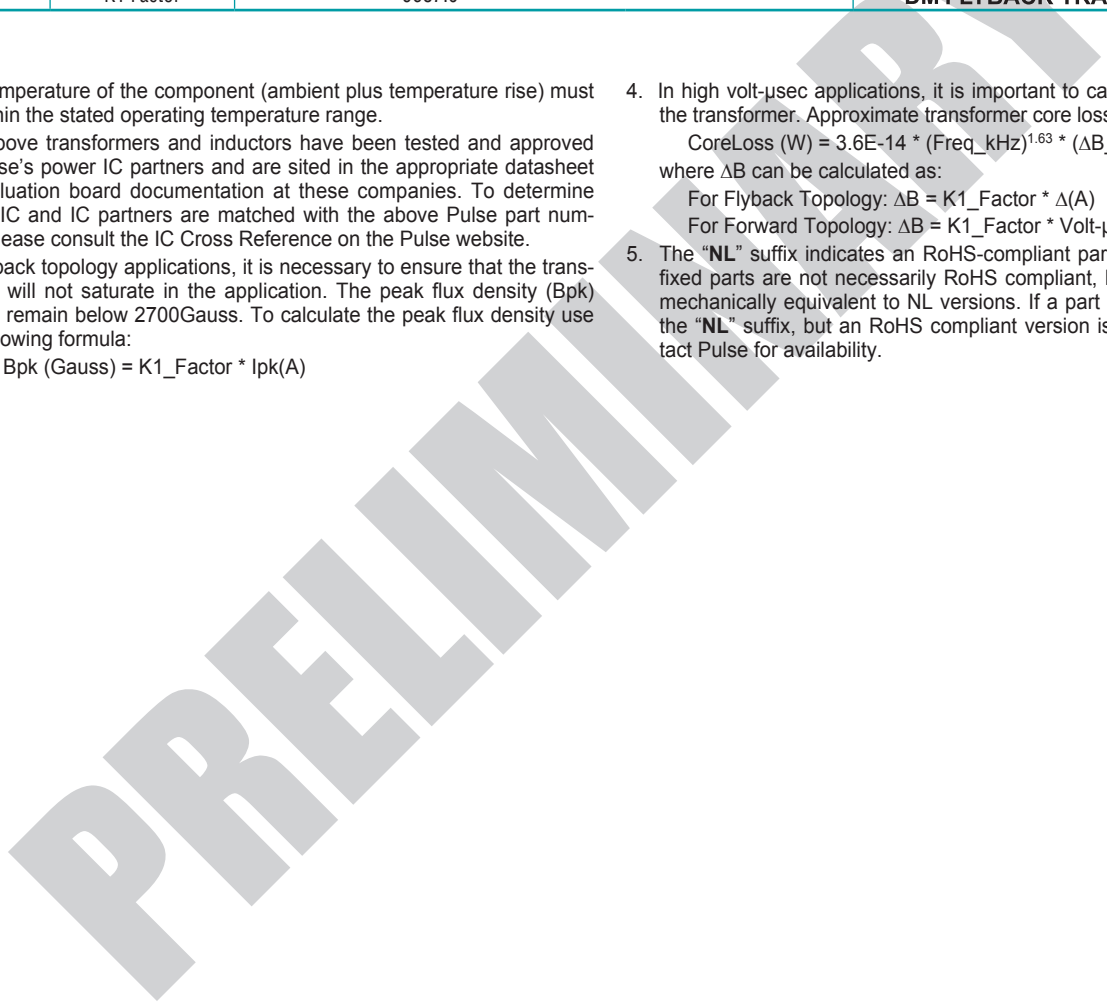
DM FLYBACK TRANSFORMER

NOTES:

- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- The above transformers and inductors have been tested and approved by Pulse's power IC partners and are sited in the appropriate datasheet or evaluation board documentation at these companies. To determine which IC and IC partners are matched with the above Pulse part numbers please consult the IC Cross Reference on the Pulse website.
- For flyback topology applications, it is necessary to ensure that the transformer will not saturate in the application. The peak flux density (Bpk) should remain below 2700Gauss. To calculate the peak flux density use the following formula:

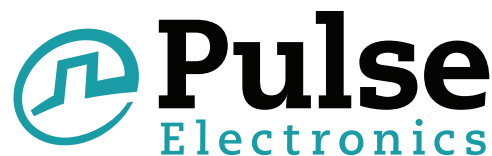
$$B_{pk} \text{ (Gauss)} = K1_Factor * I_{pk}(A)$$
- In high volt-μsec applications, it is important to calculate the core loss of the transformer. Approximate transformer core loss can be calculated as:

$$CoreLoss \text{ (W)} = 3.6E-14 * (Freq_kHz)^{1.63} * (\Delta B_Gauss)^{2.63}$$
 where ΔB can be calculated as:
 For Flyback Topology: $\Delta B = K1_Factor * \Delta(A)$
 For Forward Topology: $\Delta B = K1_Factor * Volt\text{-}\mu\text{sec}$
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.

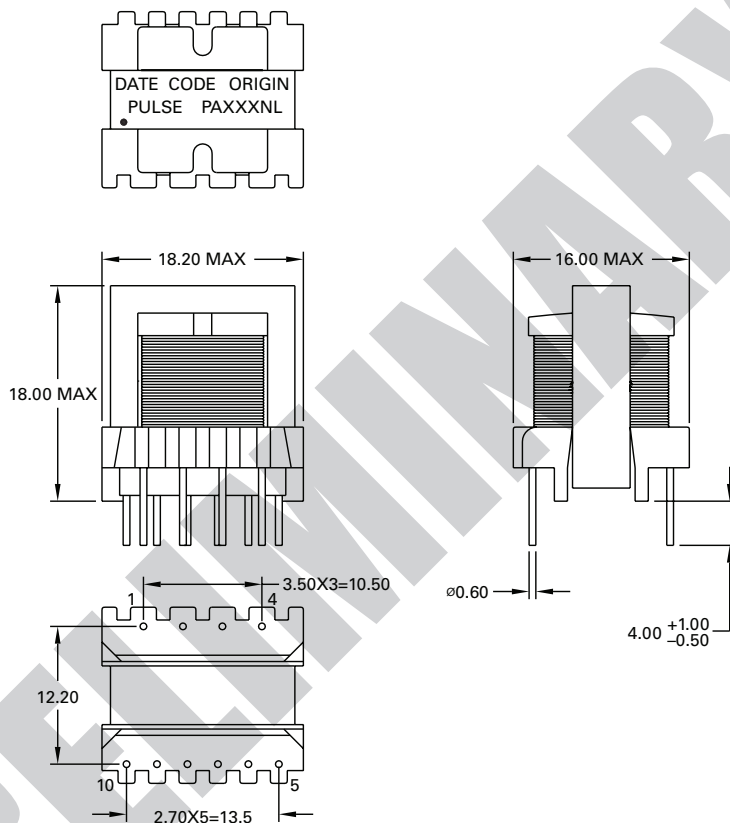


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EE16 Platforms - THT Vertical



Mechanical



For More Information:

Pulse North America Headquarters
12220 World Trade Dr.
San Diego, CA 92128
U.S.A.

Pulse European Headquarters
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057

Pulse North China
Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Pulse South Asia
150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324

Pulse North Asia
No. 26
Kao Ching Rd.
Yang Mei Chen
Taoyuan Hsien
Taiwan, R. O. C.
32667

TEL: 858 674 8100
FAX: 858 674 8262

TEL: 49 7032 7806 0
FAX: 49 7032 7806 12

TEL: 86 755 33966678
FAX: 86 755 33966700

TEL: 86 21 32181071
FAX: 86 21 32181396

TEL: 65 6287 8998
FAX: 65 6280 0080

TEL: 886 3 4643715
FAX: 886 3 4641911

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