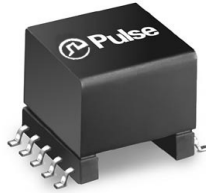


High Frequency Wire Wound Transformers

EP13Plus Platforms - SMT PA3855/56.XXXNLT



- Industry standard footprint, 30% more power handling
- Power Range:** Up to 70W
- Height:** 14.0mm Max
- Footprint:** 17.7mm x 14.5mm Max
- Topology:** Forward and Flyback

Part Number	Electrical Specifications @25°C – Operating Temperature -40°C to 130°C ¹			Schematic	
PA3855.001NL	Pri. Inductance	(1-3)	54uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.67uH Max		
	DCR	(1-3)	62		mΩ Max
		(9-6)	6.5		
		(10-7)	6.5		
		(4-5)	120		
Hi-Pot	Pri-Sec	2250	Vdc		
K1 Factor	1125.0				
PA3855.002NL	Pri. Inductance	(1-3)	48uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.67uH Max		
	DCR	(1-3)	62		mΩ Max
		(9-6)	10		
		(10-7)	10		
		(4-5)	120		
Hi-Pot	Pri-Sec	2250	Vdc		
K1 Factor	1000.0				
PA3855.003NL	Pri. Inductance	(1-3)	41uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.67uH Max		
	DCR	(1-3)	62		mΩ Max
		(9-6)	20		
		(10-7)	23		
		(4-5)	120		
Hi-Pot	Pri-Sec	2250	Vdc		
K1 Factor	854.2				
PA3855.004NL	Pri. Inductance	(1-3)	21uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.3uH Max		
	DCR	(1-3)	31		mΩ Max
		(9-6)	10		
		(10-7)	10		
		(4-5)	180		
Hi-Pot	Pri-Sec	2250	Vdc		
K1 Factor	538.5				

High Frequency Wire Wound Transformers

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Part Number	Electrical Specifications @25°C – Operating Temperature -40°C to 130°C ¹			Schematic	
PA3855.005NL	Pri. Inductance	(1-3)	21uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.3uH Max		
	DCR	(1-3)	31		mΩ Max
		(9-6)	14		
		(10-7)	14		
		(4-5)	180		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	583.3				
PA3855.006NL	Pri. Inductance	(1-3)	21uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.3uH Max		
	DCR	(1-3)	31		mΩ Max
		(9-6)	58		
		(10-7)	58		
		(4-5)	180		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	583.3				
PA3855.008NL	Pri. Inductance	(6-9)	2.5uH +/- 10%	<p>Flyback Transformer</p>	
	Lk. Inductance	(6-9) w/ (1,2,3,5) shorted	0.2uH Max		
	DCR	(1-2)	80		mΩ Max
		(3-5)	100		
		(6,7-9,10)	9		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	208.3				
PA3856.001NL	Pri. Inductance	(1-3)	100 uH +/- 15%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.4uH Max		
	DCR	(1-3)	29.4		mΩ Max
		(9-6)	6.5		
		(10-7)	6.5		
		(4-5)	120		
Hi-Pot	Pri-Sec	2250	Vdc		
K1 Factor	27.8				
PA3856.002N	Pri. Inductance	(1-3)	100uH +/- 15%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.4uH Max		
	DCR	(1-3)	29.4		mΩ Max
		(9-6)	10		
		(10-7)	10		
		(4-5)	120		
Hi-Pot	Pri-Sec	2250	Vdc		
K1 Factor	27.8				

High Frequency Wire Wound Transformers

EP13Plus Platforms - SMT PA3855/56.XXXNL



Part Number	Electrical Specifications @25°C – Operating Temperature -40°C to 130°C ¹			Schematic	
PA3856.003NL	Pri. Inductance	(1-3)	100uH +/- 15%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.4uH Max		
	DCR	(1-3)	29.4		mΩ Max
		(9-6)	31.6		
		(10-7)	36		
		(4-5)	120		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	27.8				
PA3856.004NL	Pri. Inductance	(1-3)	128uH +/- 25%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.15uH Max		
	DCR	(1-3)	17.6		mΩ Max
		(9-6)	14.4		
		(10-7)	17		
		(4-5)	410		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	41.7				
PA3856.005NL	Pri. Inductance	(1-3)	128uH +/- 15%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.15uH Max		
	DCR	(1-3)	17.6		mΩ Max
		(9-6)	31.6		
		(10-7)	36		
		(4-5)	410		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	41.7				
PA3856.006NL	Pri. Inductance	(1-3)	128uH +/- 15%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-3) w/ (10,9,6,7,4,5) shorted	0.15uH Max		
	DCR	(1-3)	17.6		mΩ Max
		(9-6)	105.6		
		(10-7)	122		
		(4-5)	426		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	41.7				
PA3856.007NL	Pri. Inductance	(1-2)	200uH +/- 25%	<p>Forward Transformer</p>	
	Lk. Inductance	(1-2) w/ (7,8,9,10) shorted	0.36uH Max		
	DCR	(1-2)	60		mΩ Max
		(3-4)	75		
		(8-7)	90		
		(10-9)	90		
	Hi-Pot	Pri-Sec	2250		Vdc
K1 Factor	33.3				

High Frequency Wire Wound Transformers

EP13Plus Platforms - SMT PA3855/56.XXXNLT



Notes:

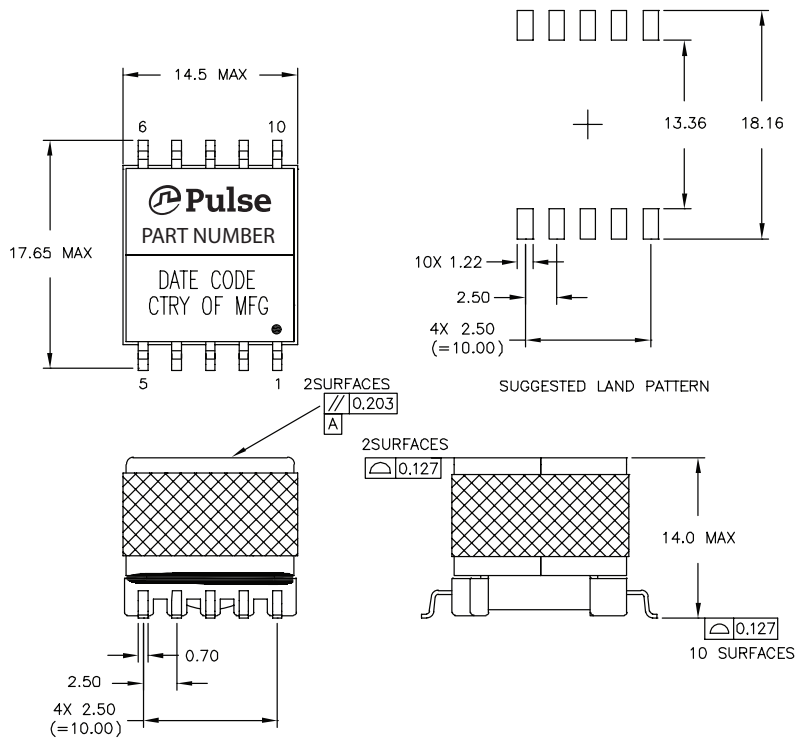
1. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
2. For flyback topology applications, it is necessary to ensure that the transformer will not saturate in the application. The peak flux density (Bpk) should remain below 2700 Gauss. To calculate the peak flux density use the following formula:

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

$$CoreLoss \text{ (W)} = 3.84E-14 * (Freq_kHz)^{1.65} * (\Delta B_Gauss)^{2.65}$$
 where ΔB can be calculated as:
 For Flyback Topology: $\Delta B = K1_Factor * \Delta I(A)$
 For Forward Topology: $\Delta B = K1_Factor * Volt-\mu sec$
4. The standard pin-numbering for this package is indicated in the below mechanical drawing showing pin 1 on the lower right corner and the numbers proceeding clockwise to pin 10 on the upper right corner.
5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA2160.001NL becomes PA2160.001NLT). Pulse complies with industry standard tape and reel specification EIA481.

Mechanical

PM2160.XXXNL



High Frequency Wire Wound Transformers

EP13Plus Platforms - SMT PA3855/56.XXXNLT



TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY PCS/REEL
	A	G	P ₁	W	K ₀	
PA3855/56.XXXNLT	Ø330	32.4	24	32	13.2	130

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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