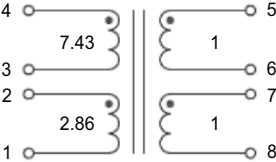
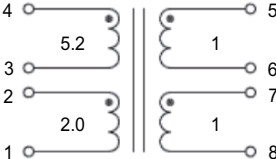
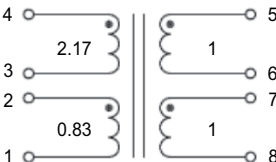
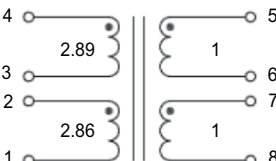


High Frequency Wire Wound Transformers

ER7.5 Platforms - SMT - PA4470.XXXNL



-  **Power Range:** Up to 1.8 W
-  **Height:** 6.0 mm Max
-  **Footprint:** 9.5 mm x 8.0 mm Max
-  **Topology:** Flyback

Pulse PN	Electrical Specifications @25°C - Operating Temperature -40°C to 130°C ¹				Schematic	
PA4470.001NL	Pri. Inductance	(4-3)	216	uH +/- 25%	33-57v 200kHz 10v/50mA 	Flyback Transformer
	Lk. Inductance	(4-3) w/ (5,6,7,8) shorted	3.5	uH Max		
	DCR	(4-3)	2.6	Ohms Max		
		(2-1)	2.72			
		(5-6)	0.11			
		(7-8)	0.12			
	Hi-Pot	Pri-Sec	1650	Vdc		
K1 Factor	7187					
PA4470.002NL	Pri. Inductance	(4-3)	216	uH +/- 25%	33-57v 200kHz 10v/50mA 	Flyback Transformer
	Lk. Inductance	(4-3) w/ (5,6,7,8) shorted	3.5	uH Max		
	DCR	(4-3)	2.6	Ohms Max		
		(2-1)	1.8			
		(5-6)	0.32			
		(7-8)	0.32			
	Hi-Pot	Pri-Sec	1650	Vdc		
K1 Factor	7187					
PA4470.003NL	Pri. Inductance	(4-3)	216	uH +/- 25%	33-57v 200kHz 10v/50mA 	Flyback Transformer
	Lk. Inductance	(4-3) w/ (5,6,7,8) shorted	3.5	uH Max		
	DCR	(4-3)	2.6	Ohms Max		
		(2-1)	2.72			
		(5-6)	1.2			
		(7-8)	1.2			
	Hi-Pot	Pri-Sec	1650	Vdc		
K1 Factor	7187					
PA4470.004NL	Pri. Inductance	(4-3)	21.8	uH +/- 25%	10-14v 200kHz 10v/50mA 	Flyback Transformer
	Lk. Inductance	(4-3) w/ (5,6,7,8) shorted	0.5	uH Max		
	DCR	(4-3)	0.3	Ohms Max		
		(2-1)	1.6			
		(5-6)	0.11			
		(7-8)	0.12			
	Hi-Pot	Pri-Sec	1650	Vdc		
K1 Factor	2357					

High Frequency Wire Wound Transformers

ER7.5 Platforms - SMT - PA4470.XXXNL

Pulse PN	Electrical Specifications @25° C - Operating Temperature -40° C to 130° C ¹					Schematic		
PA4470.005NL	Pri. Inductance	(4-3)	21.8		uH +/- 25%	10-14v 200kHz 10v/50mA	5v/0.9W 5v/0.9W	
	Lk. Inductance	(4-3) w/ (5,6,7,8) shorted	0.5		uH Max			
	DCR	(4-3)	0.3	Ohms Max				
		(2-1)	1.6					
		(5-6)	0.15					
		(7-8)	0.16					
	Hi-Pot	Pri-Sec	1650		Vdc			
K1 Factor	2357							
PA4470.006NL	Pri. Inductance	(4-3)	21.8		uH +/- 25%	10-14v 200kHz 10v/50mA	12v/0.9W 12v/0.9W	
	Lk. Inductance	(4-3) w/ (5,6,7,8) shorted	0.5		uH Max			
	DCR	(4-3)	0.3	Ohms Max				
		(2-1)	1.6					
		(5-6)	1.15					
		(7-8)	1.2					
	Hi-Pot	Pri-Sec	1650		Vdc			
K1 Factor	2357							

Notes:

- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- 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 2600Gauss. 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:

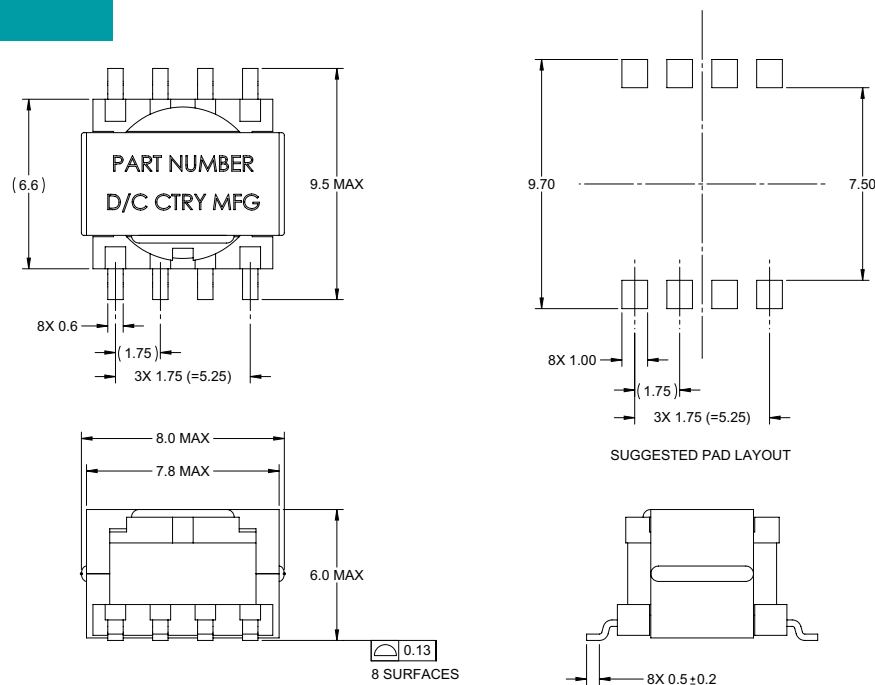
$$CoreLoss \text{ (W)} = 3.84E-14 * (Freq_kHz)^{1.63} * (\Delta B_Gauss)^{2.63}$$
 where ΔB can be calculated as:
 For Flyback Topology: $\Delta B = K1_Factor * \Delta I(A)$
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA4470.001NL becomes PA4470.001NLT). Pulse complies with industry standard tape and reel specification EIA481. The tape and reel for this product has a width (W=24mm), pitch (Po=16mm) and depth (Ko=5.8mm).

High Frequency Wire Wound Transformers

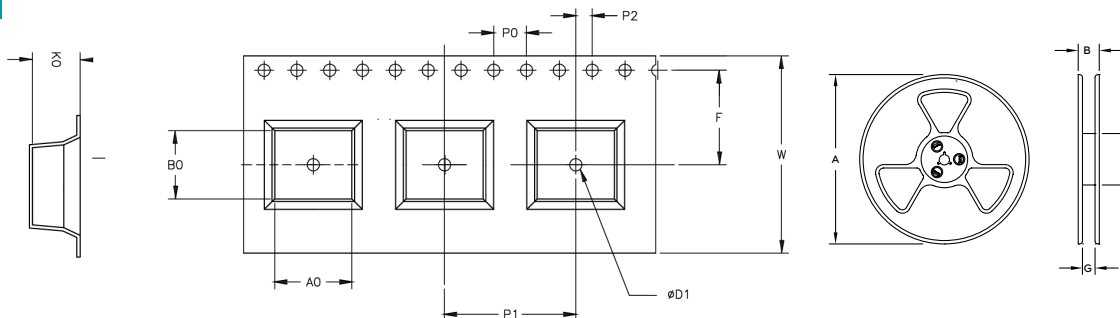
ER7.5 Platforms - SMT - PA4470.XXXNL

Mechanical

PA4470.XXXNL



TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

	REEL SIZE (mm)						TAPE SIZE (mm)										QTY
	A	A ₀	B	B ₀	G		N	E	F	P ₁	P ₀	P	W	T	K		
PA4470.XXXNLT	Ø330	9.4	N/A	8.3	12	100	N/A	11.5	N/A	4	N/A	24	N/A	5.8	3.3	700	

For More Information

Pulse Worldwide Headquarters

15255 Innovation Drive Ste 100
San Diego, CA 92128
U.S.A.

Pulse Europe

Pulse Electronics GmbH
Am Rottland 12
58540 Meinerzhagen
Germany

Pulse China Headquarters

Pulse Electronics (ShenZhen) CO., LTD
D708, Shenzhen Academy of
Aerospace Technology,
The 10th Keji South Road,
Nanshan District, Shenzhen,
P.R. China 518057

Pulse North China

Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Pulse South Asia

3 Fraser Street
0428 DUO Tower
Singapore 189352

Pulse North Asia

1F., No.111 Xiyuan Rd
Zhongli City
Taoyuan City 32057
Taiwan (R.O.C)

Tel: 858 674 8100
Fax: 858 674 8262

Tel: 49 2354 777 100
Fax: 49 2354 777 168

Tel: 86 755 33966678
Fax: 86 755 33966700

Tel: 86 21 62787060
Fax: 86 21 62786973

Tel: 65 6287 8998
Fax: 65 6280 0080

Tel: 886 3 4356768
Fax: 886 3 4356820

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9