SMT Power Inductor

Shielded Drum Core - PA4333.XXXNLT Series





💶 Height: 3.2mm Max

🕒 Footprint: 7.4mm x 6.8mm Max

Current Rating: up to 14A

Inductance Range: 0.22uH to 22uH

Shielded magnetic circuit reduces leakage flux, Fe base metal core enables high saturation and metalized core termination results in excellent shock resistance.

		Electrical Speci	ifications @ 25°C – Oper	ating Temperature -4	0°C to +125°C			
	Inductance	Rated	Min. Self-Resonant	-	DC stance	Saturation Current	Heating Current △T ≈ 40°C	
Part	1MHz, 1V	Current	Frequency	MAX.	TYP.	(20°C)		
Number	uH ±20%	A	MHz	mΩ	mΩ	Α	A	
PA4333.221NLT	0.22	14.00	108	4.0	3.3	18.00	14.00	
PA4333.331NLT	0.33	12.40	78	5.1	4.3	17.00	12.40	
PA4333.471NLT	0.47	11.00	71	6.6	5.5	16.50	11.00	
PA4333.681NLT	0.68	9.50	57	8.7	7.3	12.80	9.50	
PA4333.751NLT	0.75	9.50	55	8.7	7.3	11.50	9.50	
PA4333.102NLT	1.0	9.50	41	8.7	7.3	9.50	9.50	
PA4333.152NLT	1.5	6.00	37	13.8	11.5	8.00	6.00	
PA4333.222NLT	2.2	5.65	24	18.0	15.0	6.50	5.65	
PA4333.332NLT	3.3	4.60	23	30.5	25.5	4.60	4.60	
PA4333.472NLT	4.7	3.80	15	43.5	36.5	3.80	3.80	
PA4333.682NLT	6.8	3.20	14	64.0	53.5	3.20	3.20	
PA4333.822NLT	8.2	3.10	13	69.0	58.0	3.20	3.10	
PA4333.103NLT	10	3.00	12	77.4	64.5	3.00	3.00	
PA4333.153NLT	15	2.50	11	127.0	106.0	3.00	2.50	
PA4333.223NLT	22	1.70	8	177.0	148.0	1.70	2.00	

Notes:

1. Actual temperature of the component during system operation (ambient plus temperature 4. The heating current is the DC current required to raise the component temperature by rise) must be within the standard operating range.

2. The rated current as listed is either the saturation current (@ 20°C) or the heating current $(\Delta T \approx 40^{\circ}C)$ depending on which value is lower.

3. The saturation current is the current at which the initial inductance drops approximately 30% at the stated ambient temperature. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effect) to the component.

USA 858 674 810)0
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approximately 40°C. Take note that the components' performance varies depending on

verify the temperature rise of the component during system operation.

5. Maximum voltage across terminals to be limited to <40Vdc

the system condition. It is suggested that the component be tested at the system level, to

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All Dimensions in mm.



SURFACE MOUNTING TYPE, REEL/TAPE LIST														
		REEL S	ZE (mm)		TAPE SIZE (mm) QTY									
	A	В	G	N	E	F	Do	P 1	Po	P2	W	T	Ko	PCS/REEL
PA4333.XXXNLT	Ø 330	22.4	16.4	100	1.75	7.5	1.5	12	4	2	16	0.40	3.6	1000

For More Inf	ormation				
Pulse Worldwide Headquarters 12220 World Trade Drive San Diego, CA 92128 U.S.A.	Puise Europe Einsteinstrasse 1 D-71083 Herren- berg Germany	Pulse China Headquarters B402, Shenzhen Academy of Aerospace Technol- ogy Bldg. 10th Kejinan Road High-Tech Zone Nanshan District	Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Road West Shanghai 200336	Pulse South Asia 135 Joo Seng Road #03-02 PM Industrial Bldg. Singapore 368363	Pulse North Asia 3F, No. 198 Zhongyuan Road Zhongli City Taoyuan County 320 Taiwan R. O. C. Tel: 886 3 4356768
Tel: 858 674 8100 Fax: 858 674 8262	Tel: 49 7032 78060 Fax: 49 7032 7806 135	Shenzen, PR China 518057 Tel: 86 755 33966678 Fax: 86 755 33966700	China Tel: 86 21 62787060 Fax: 86 2162786973	Tel: 65 6287 8998 Fax: 65 6287 8998	Fax: 886 3 4356823 (Pulse) Fax: 886 3 4356820 (FRE)

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