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SMT Common Mode Chokes

PM9407.XXXNLT and PM9408.XXXNLT Series

Pulse
a YAGEO company





- *ER19 and ER25 Planar Platforms*
- *24.9x21.6x16.9mm and 30.5x27x18mm Max*
- *Up to 39Arms rated current*
- *Up to 1500Vrms Isolation[4]*

Electrical Specifications @ 25°C – Operating Temperature -40°C to +150°C[5]

Part Number	Inductance (2,3-5,6)	Irated	LK (2,3-5,6) with (7,8,10,11) shorted	Capacitance N1 to N2 (2,3,5,6) to (7,8,10,11)	DCR (2,3-5,6)=(10,11-7,8)	Self Resonant Frequency (2,3-5,6)=(10,11-7,8)	Impedance at SRF
	(uH MIN)	(A)	(uH TYP)	(pF TYP)	(mΩ MAX)	(MHz TYP)	(kΩ TYP)
PM9407.XXXNLT - 24.9mm x 21.6mm x 16.9mm Max							
PM9407.104NLT	78	20	0.4	4.3	2.50	1.65	0.73
PM9407.204NLT	130	17	0.5	6.4	3.50	1.79	1.08
PM9407.304NLT	182	14	0.9	7.0	4.80	1.57	1.60
PM9407.404NLT	232	12	1.3	7.2	5.30	1.56	1.72
PM9407.504NLT	312	10	1.5	7.8	7.80	1.42	2.35
PM9408.XXXNLT - 30.5mm x 27mm x 18mm Max							
PM9408.164NLT	95	39	1.5	8	1.4	1.6	0.4
PM9408.254NLT	150	32	2.0	8	1.9	2.0	0.6
PM9408.364NLT	210	23	3.0	9	3.5	1.2	1.5
PM9408.494NLT	290	21	4.0	10	4.0	1.1	2.0
PM9408.644NLT	380	19	6.0	11	5.6	1.1	2.5
PM9408.814NLT	480	18	6.0	11	6.3	1.1	3.4
PM9408.105NLT	600	17	6.0	11	7.0	1.1	4.3
PM9408.155NLT	870	12	6.0	11	13	0.95	5.5

NOTE:

1. The Irated is based upon the temperature rise of the component and represents the rms current which will cause a typical temperature rise of 50°C with free air cooling.
2. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
3. Pulse complies to industry standard tape and reel specification EIA481.
4. 1500Vrms for PM9408.XXXNLT, 1000Vrms for PM9407.XXXNLT.
5. Pending qualification to 150°C for PM9407.XXXNL.

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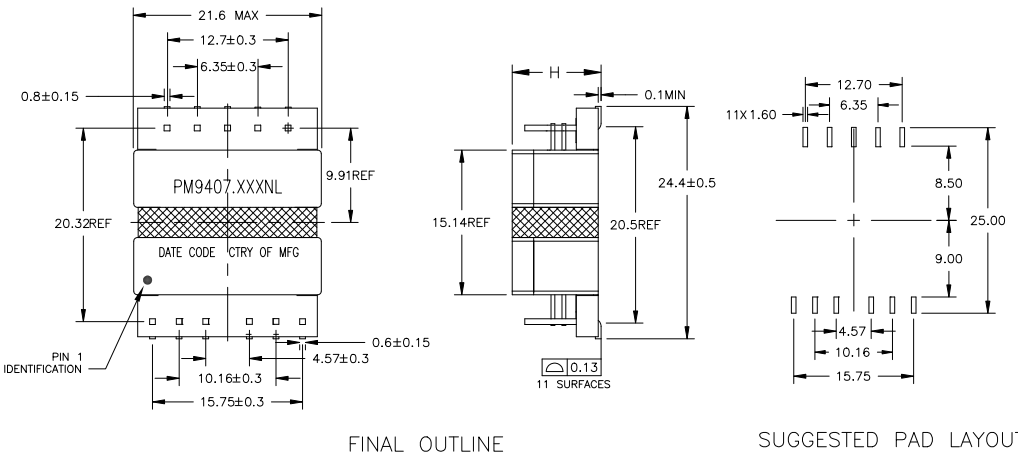
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Mechanicals

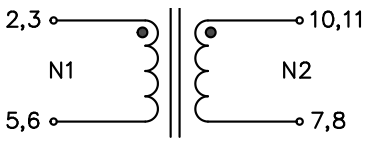
Schematic

PM9407.XXXNLT



FINAL OUTLINE

SUGGESTED PAD LAYOU



PM9407. Series	H(mm Max)	Weight(g TYP)
104NLT	15.0	17
204NLT	15.0	18
304NLT	16.2	19
404NLT	17.1	20
504NLT	17.1	20

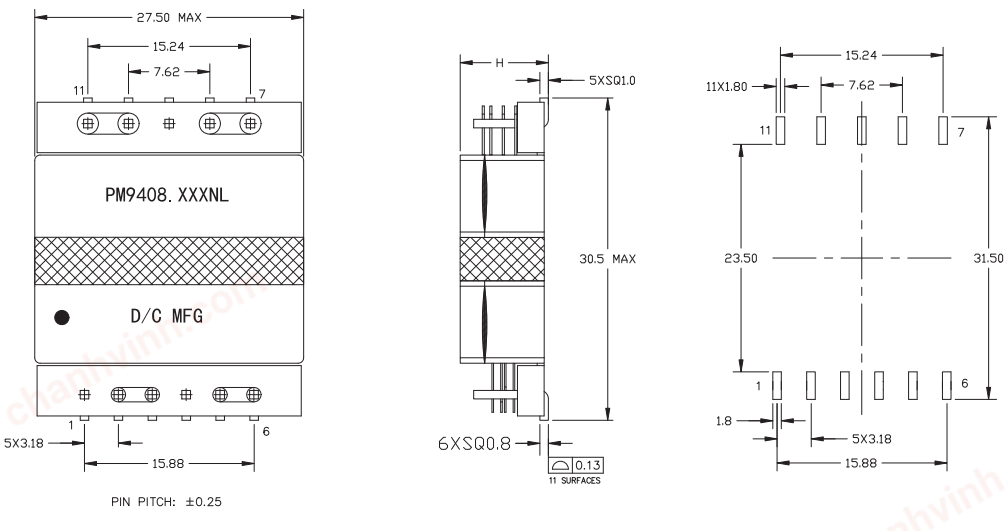
Dimensions: mm

Unless otherwise specified, all tolerance are ±0.25

Mechanicals

Schematic

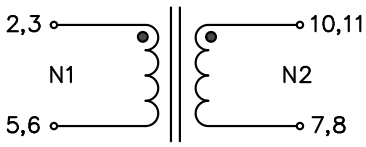
PM9408.XXXNLT



PIN PITCH: ±0.25

FINAL OUTLINE

SUGGESTED LAND PATTERN



PM9408. Series	H(mm Max)	Weight(g TYP)
164NLT	15.0	30
254NLT	15.0	31
364NLT	17.0	34
494NLT	17.0	36
644NLT	18.0	36
814NLT	18.0	37
105NLT	18.0	36
155NLT	18.0	35

Dimensions: mm

Unless otherwise specified, all tolerance are ±0.25

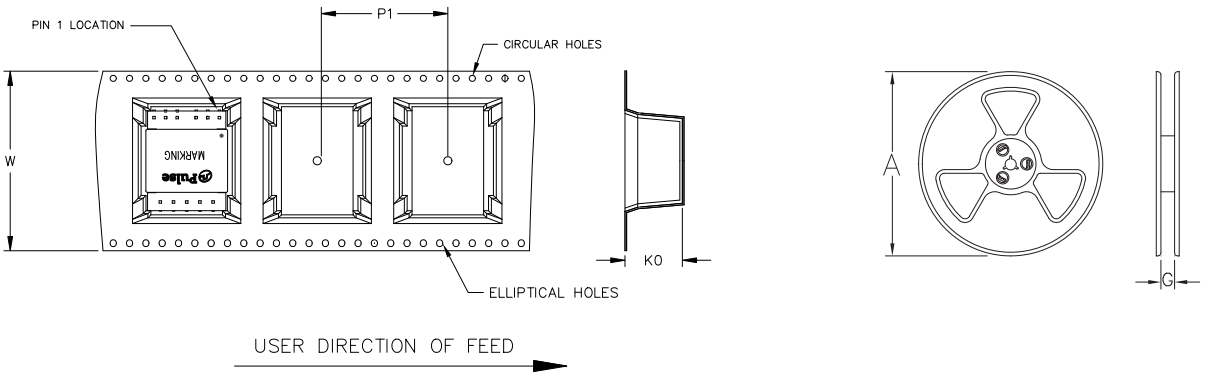
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TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST						
PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P_1	W	K_0	PCS/REEL
PM9407.104NLT	Ø330	44.4	32	44	15.3	100
PM9407.204NLT	Ø330	44.4	32	44	15.3	100
PM9407.304NLT	Ø330	56.4	32	56	17.0	80
PM9407.404NLT	Ø330	56.4	32	56	17.9	80
PM9407.504NLT	Ø330	56.4	32	56	17.9	80
PM9408.164NLT	Ø330	56.4	40	56	15.8	60
PM9408.254NLT	Ø330	56.4	40	56	15.8	60
PM9408.364NLT	Ø330	56.4	40	56	18.4	45
PM9408.494NLT	Ø330	56.4	40	56	18.4	45
PM9408.644NLT	Ø330	56.4	40	56	18.4	45
PM9408.814NLT	Ø330	56.4	40	56	18.4	45
PM9408.105NLT	Ø330	56.4	40	56	18.4	45
PM9408.155NLT	Ø330	56.4	40	56	18.4	45

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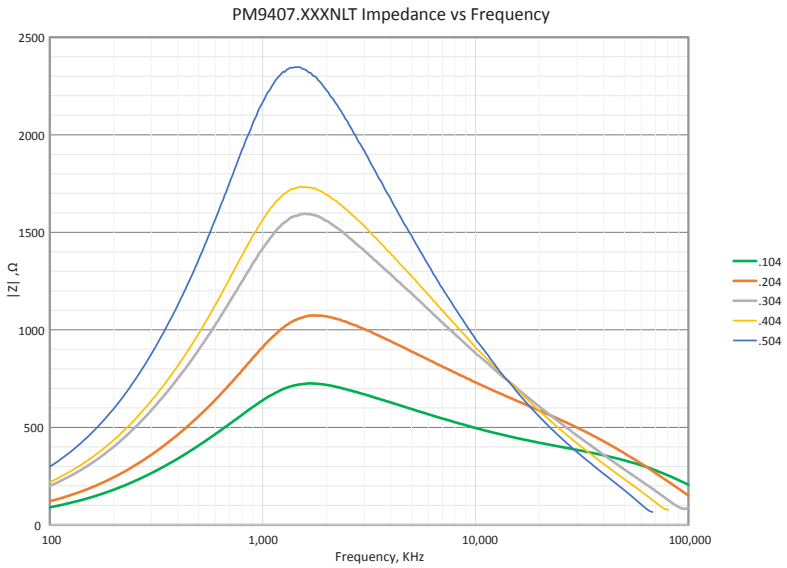
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Impedance Plots

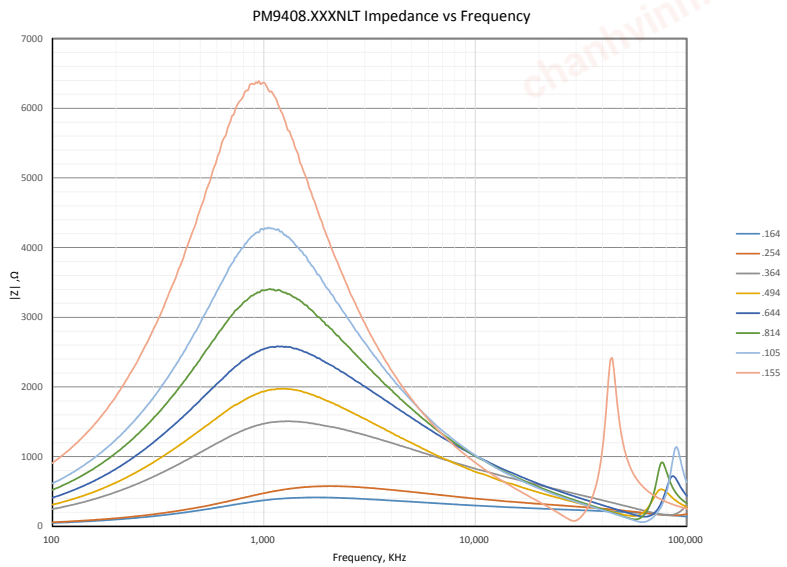
PM9407.XXXNLT

PM9407.XXXNLT



PM9408.XXXNLT

PM9408.XXXNLT



For More Information:

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