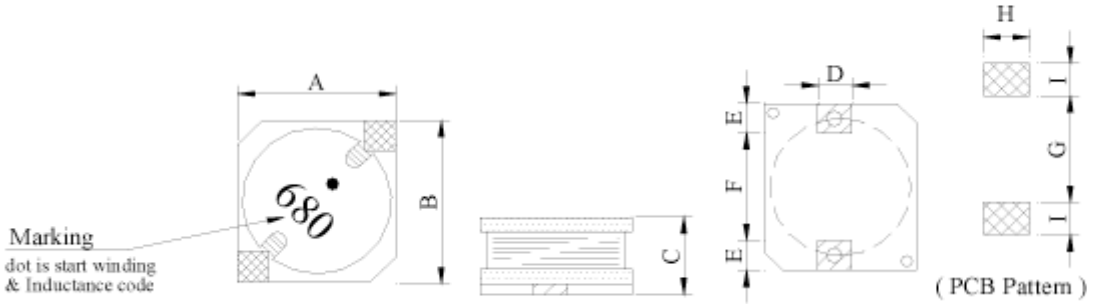
PN1105

SMD Power Inductors Unshielded

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1. Configuration & Dimensions



Series	Dimensions [mm]								
	A(max.)	B	C	D	E	F	G(ref.)	H(ref.)	I(ref.)
PN1105	10.0	11.1±0.3	4.8±0.2	2.0±0.2	2.0±0.2	7.1±0.3	7.6	2.4	2.4

2. Schematic Diagram

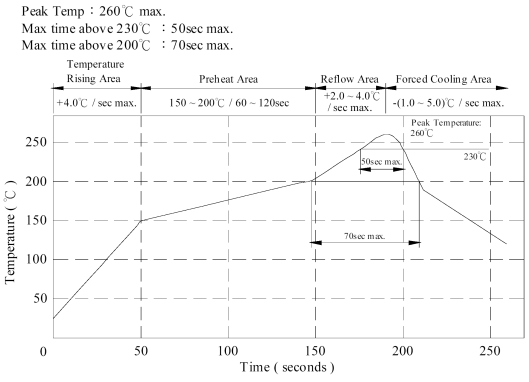


3. Materials

a.- Core : Ferrite DR Core
b.- Base : FR – 4
c.- Wire : Enamelled copper wire (class F)
d.- Adhesive : Epoxy resin
e.- Terminal : Cu / Ni / Au
f.- Soldering : Sn97 / Cu3 solder wire
g.- Remark : Lead content 200ppm max. include ferrite

4. General Specification

a.- Temp. rise : 40°C max.
b.- Rated current : Base on temp. rise & ΔL/L0A = 10% max.
c.- Storage temp. : -40°C ~ +125°C
d.- Operating temp. : -40°C ~ +105°C
e.- Resistance to solder heat : 260°C. 10 secs



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5. Electrical Characteristics

PN1105 (10µH – 200µH)

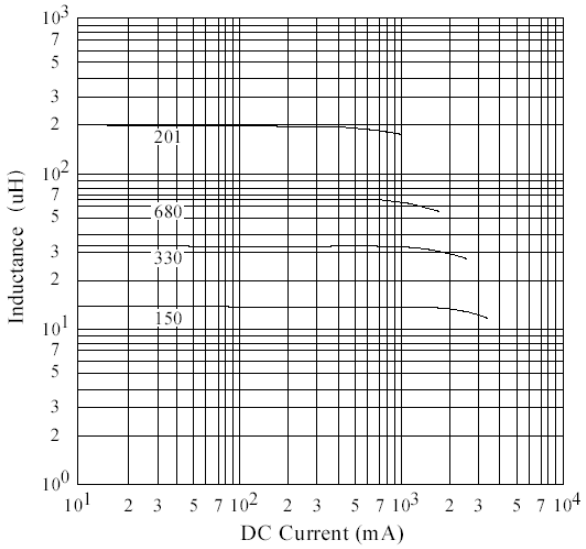
DWG No.	Inductance (µH)	Test Freq. L (KHz)	RDC (Ω) max.	IDC (A) max.
PN1105 – 100M	10.0±20%	1	0.045	4.00
PN1105 – 120M	12.0±20%	1	0.069	3.60
PN1105 – 150M	15.0±20%	1	0.075	3.20
PN1105 – 220M	22.0±20%	1	0.080	3.00
PN1105 – 270M	27.0±20%	1	0.095	2.80
PN1105 – 330K	33.0±10%	1	0.100	2.60
PN1105 – 390K	39.0±10%	1	0.140	2.40
PN1105 – 470K	47.0±10%	1	0.170	2.20
PN1105 – 560K	56.0±10%	1	0.200	2.00
PN1105 – 680K	68.0±10%	1	0.210	1.80
PN1105 – 820K	82.0±10%	1	0.300	1.60
PN1105 – 101K	100.0±10%	1	0.320	1.50
PN1105 – 151K	150.0±10%	1	0.500	1.20
PN1105 – 201K	200.0±10%	1	0.650	1.00

[Inductance tested at 1V]

6. Curve

Inductance VS. DC Current Curve

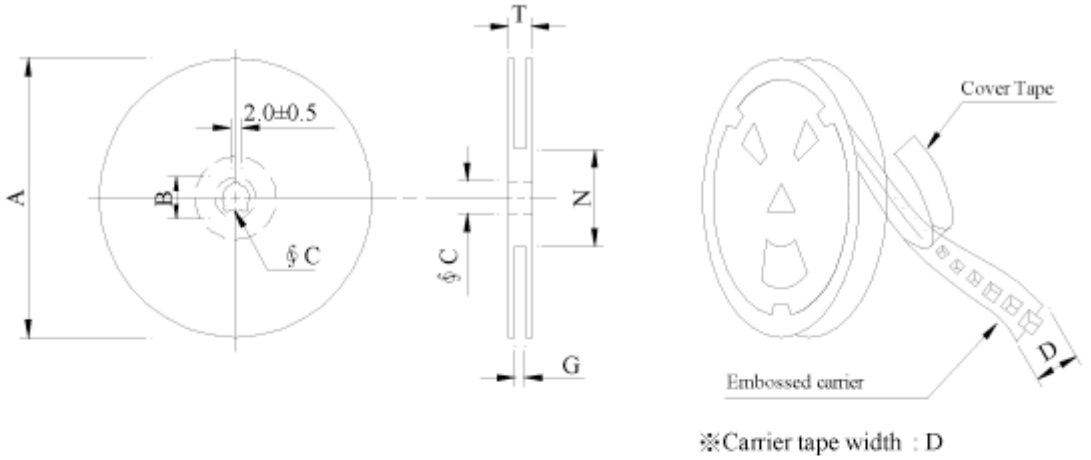
PN1105

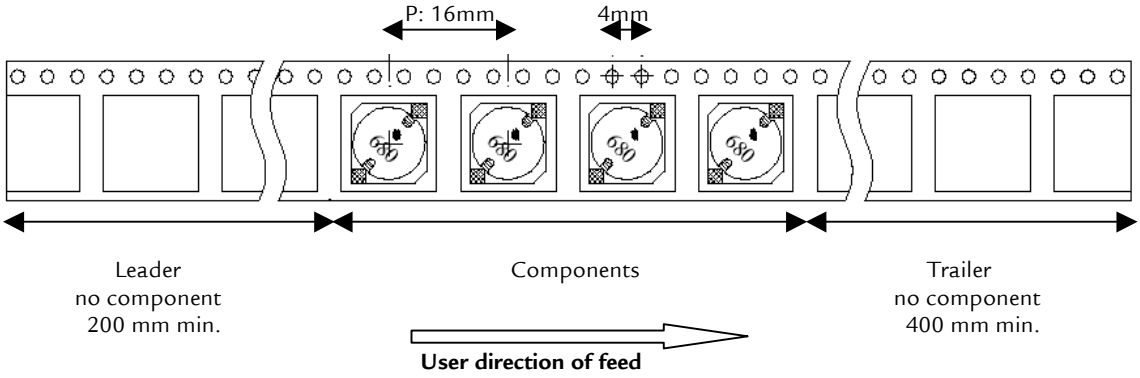


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7. Packaging Information





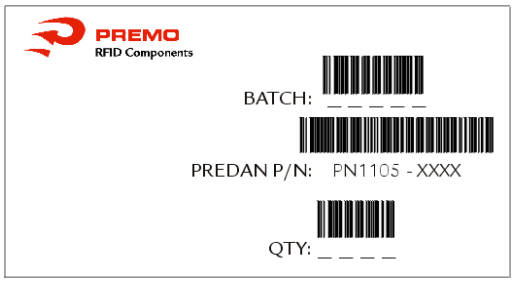
Style	Dimensions [mm]						
	A	B	C	D	G	N	T
13 – 24	330	21±0.8	13±0.5	24	26^{+0}	50^{-0}	30.4

Series	Inner : Reel			Outer : Carton		
	Q'TY(pcs)	G.W.(gw)	Style	Q'TY(pcs)	G.W.(Kg)	Size(cm)
PN1105	800	1,800	13 – 24	3,200	9.5	40 x 40 x 24

8. Labelling

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9. Reliability Test

Test item	Specification	Test condition
Solderability	More than 90% of the terminal electrode shall be covered with fresh solder	Preheat : 150±25% for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 4±1 seconds
Thermal shock test (Temp. cycle)	Inductance shall not change more than ±20%	Room temp. / 15 minutes → -25±2°C / 30 minutes Room temp. / 15 minutes → 85±2°C / 30 minutes Total : 50 cycles
Humidity Resistance test		Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per specifications Time : 500 hours
High temp. Resistance test		Temperature : 105±2°C Applied current : Per specifications Time : 500 hours

10. Edition Control

Edition	Date	Change description	Made by
1st	31/08/06	Update Specification	Pablo Pozo

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