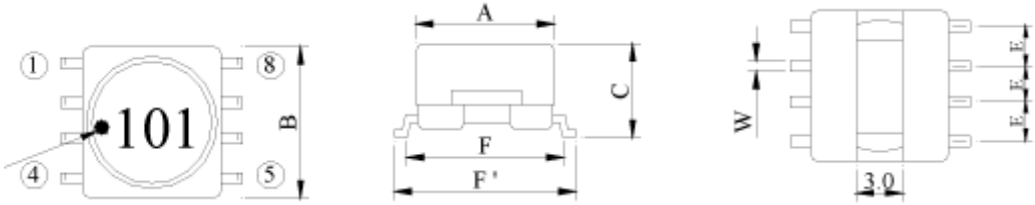
PS0908

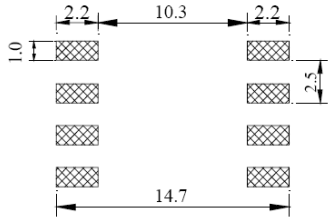
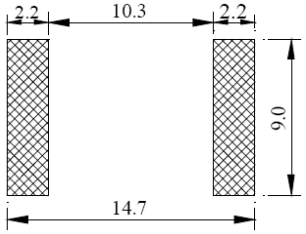
SMD Power Inductors Shielded

RoHS COMPLIANT 2002/95/EC

C/Severo Ochoa 33 – Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web http://www.grupopremo.com

1. Configuration & Dimensions



PS0908 – 101L ~ 153L	PS0908 – 1R5M ~ 820M
 (PCB Pattern)	 (PCB Pattern)

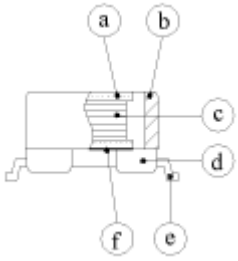
Series	Dimensions [mm]						
	A	B(max.)	C	E	F	F'	W(typ.)
PS0908	9.5±0.3	10.5	7.5±0.3	2.5±0.3	11.5±0.5	12.7±0.8	0.6

2. Schematic Diagram

PS0908 – 101L ~ 153L	PS0908 – 1R5M ~ 820M
	

3. Materials

a.- Core : Ferrite DR core
b.- Core : Ferrite RI core
c.- Wire : Enamelled copper wire (class F)
d.- Base : LCP
e.- Terminal : Cu / Ni / Sn
f.- Adhesive : Epoxy resin
g.- Remark : Lead content 200ppm max. include ferrite

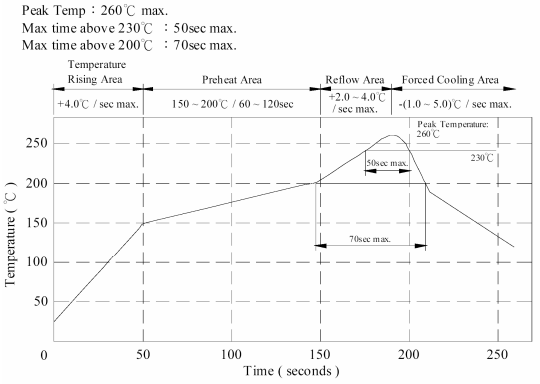


All rights reserved. Passing on of this document, use and communication of contents not permitted without written authorisation.

C/Severo Ochoa 33 – Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web http://www.grupopremo.com

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



5. Electrical Characteristics

PS0908 (1.5µH – 15000µH)

DWG No.	Inductance (µH)	Q nom.	Test Freq.		SRF (MHz) nom.	RDC (Ω) max.	IDC (mA) max.
			L (KHz)	Q (MHz)			
PS0908 – 1R5M	1.5±20%	20	1	7.96	65.00	0.014	5600
PS0908 – 2R7M	2.7±20%	20	1	7.96	50.00	0.019	4800
PS0908 – 3R9M	3.9±20%	20	1	7.96	35.00	0.021	4400
PS0908 – 5R6M	5.6±20%	18	1	7.96	25.00	0.027	3800
PS0908 – 7R5M	7.5±20%	18	1	7.96	15.00	0.032	3400
PS0908 – 100M	10.0±20%	33	1	2.52	11.00	0.040	3000
PS0908 – 120M	12.0±20%	40	1	2.52	11.00	0.050	2500
PS0908 – 150M	15.0±20%	45	1	2.52	8.50	0.065	2200
PS0908 – 180M	18.0±20%	40	1	2.52	8.50	0.075	2000
PS0908 – 220M	22.0±20%	35	1	2.52	6.00	0.080	1900
PS0908 – 270M	27.0±20%	45	1	2.52	6.00	0.090	1800
PS0908 – 330M	33.0±20%	40	1	2.52	5.00	0.100	1700
PS0908 – 390M	39.0±20%	45	1	2.52	5.00	0.135	1500
PS0908 – 470M	47.0±20%	40	1	2.52	4.00	0.150	1400
PS0908 – 560M	56.0±20%	35	1	2.52	3.00	0.165	1350
PS0908 – 680M	68.0±20%	30	1	2.52	2.50	0.184	1250
PS0908 – 820M	82.0±20%	30	1	2.52	2.40	0.260	1050
PS0908 – 101L	100.0±15%	40	1	0.796	6.00	0.280	1000
PS0908 – 121L	120.0±15%	42	1	0.796	5.70	0.340	900

All rights reserved. Passing on of this document, use and communication of contents not permitted without written authorisation.

C/Severo Ochoa 33 – Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web http://www.grupopremo.com

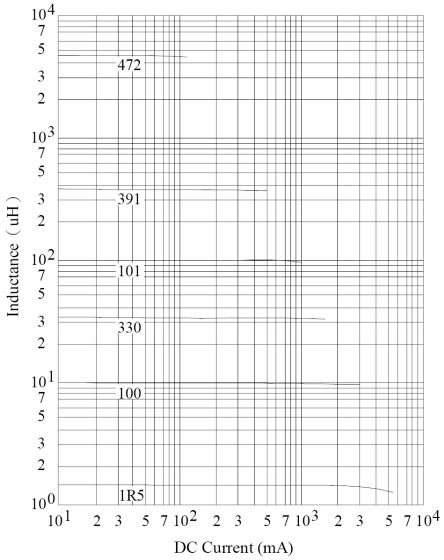
PS0908 (1.5µH – 15000µH)

PS0908 – 151L	150.0±15%	45	1	0.796	4.60	0.450	800
PS0908 – 181L	180.0±15%	35	1	0.796	4.20	0.500	700
PS0908 – 221L	220.0±15%	35	1	0.796	3.80	0.600	650
PS0908 – 271L	270.0±15%	30	1	0.796	3.40	0.700	600
PS0908 – 331L	330.0±15%	30	1	0.796	3.00	0.800	550
PS0908 – 391L	390.0±15%	33	1	0.796	2.60	1.000	500
PS0908 – 471L	470.0±15%	30	1	0.796	2.30	1.150	450
PS0908 – 561L	560.0±15%	35	1	0.796	2.20	1.500	380
PS0908 – 681L	680.0±15%	30	1	0.796	2.00	1.700	350
PS0908 – 821L	820.0±15%	35	1	0.796	1.90	2.200	320
PS0908 – 102L	1000.0±15%	85	1	0.252	1.80	2.500	300
PS0908 – 152L	1500.0±15%	120	1	0.252	1.30	4.000	250
PS0908 – 222L	2200.0±15%	95	1	0.252	1.00	5.000	200
PS0908 – 332L	3300.0±15%	95	1	0.252	0.90	8.000	150
PS0908 – 472L	4700.0±15%	90	1	0.252	0.80	12.000	120
PS0908 – 682L	6800.0±15%	90	1	0.252	0.60	16.500	100
PS0908 – 822L	8200.0±15%	85	1	0.252	0.50	24.000	97
PS0908 – 103L	10000.0±15%	110	1	0.0796	0.50	26.000	95
PS0908 – 153L	15000.0±15%	130	1	0.0796	0.40	40.000	75

6. Curve

Inductance VS. DC Current Curve

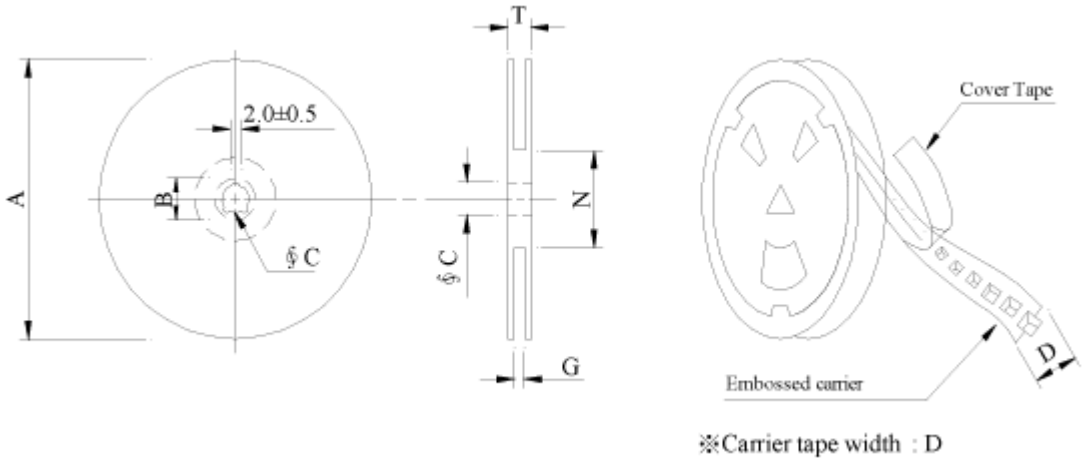
PS0908

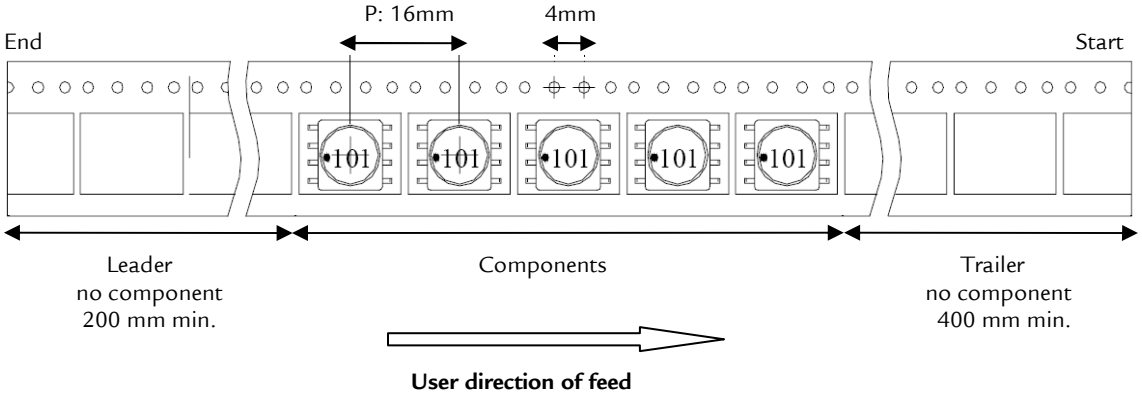


All rights reserved. Passing on of this document, use and communication of contents not permitted without written authorisation.

C/Severo Ochoa 33 – Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web http://www.grupopremo.com

7. Packaging Information

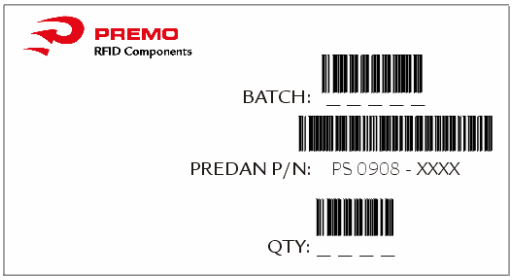




Style	Dimensions [mm]						
	A	B	C	D	G	N	T
13 – 24	330	21±0.8	13	24	26^{+0}	50^{-0}	30.4

Series	Inner : Reel			Outer : Carton		
	Q'TY(pcs)	G.W.(gw)	Style	Q'TY(pcs)	G.W.(Kg)	Size(cm)
PS0908	400	1,600	13 – 24	1,600	8.6	40 x 40 x 24

8. Labelling



All rights reserved. Passing on of this document, use and communication of contents not permitted without written authorisation.

C/Severo Ochoa 33 – Parque Tecnológico de Andalucía. 29590 Campanillas .Málaga (Spain) **Phone** +34 951 231 320 Fax +34 951 231 321
E-mail: mar.villarrubia@grupopremo.com Web http://www.grupopremo.com

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

All rights reserved. Passing on of this document, use and communication of contents not permitted without written authorisation.