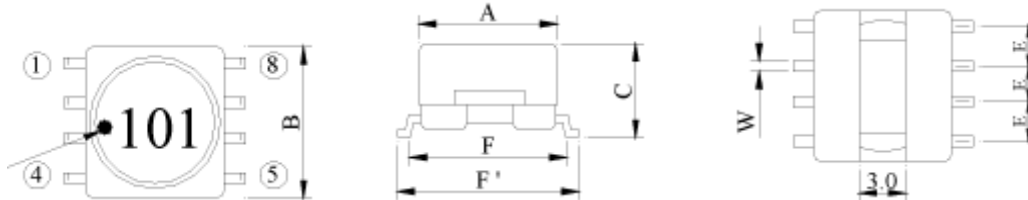
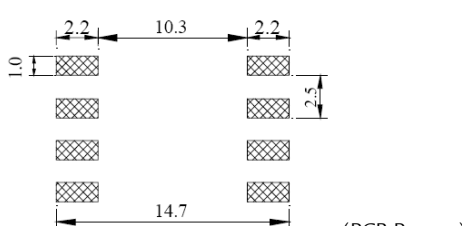
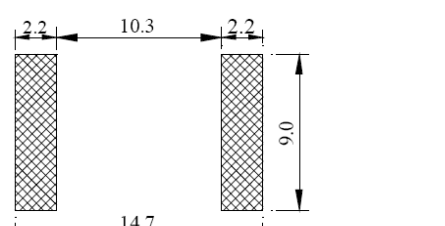


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E-mail: mar.villarrubia@grupopremo.com **Web** <http://www.grupopremo.com>

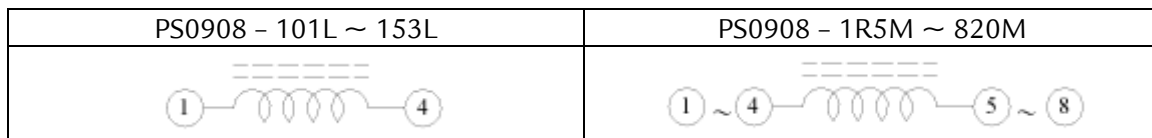
1. Configuration & Dimensions



| PS0908 - 101L ~ 153L | PS0908 - 1R5M ~ 820M |
|--|---|
|  <p>(PCB Pattern)</p> |  <p>(PCB Pattern)</p> |

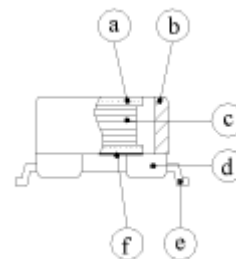
| Series | Dimensions [mm] | | | | | | |
|--------|-----------------|---------|---------|---------|----------|----------|---------|
| | A | B(max.) | C | E | F | F' | W(typ.) |
| PS0908 | 9.5±0.3 | 10.5 | 7.5±0.3 | 2.5±0.3 | 11.5±0.5 | 12.7±0.8 | 0.6 |

2. Schematic Diagram



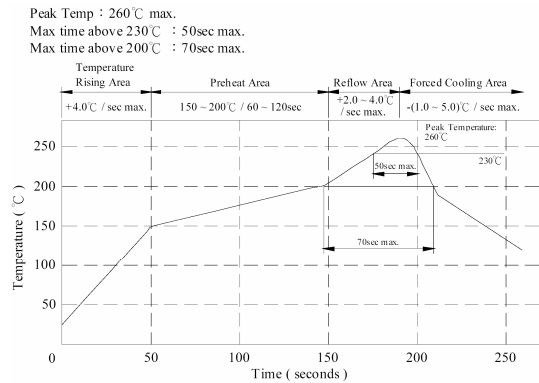
3. Materials

- 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



4. General Specification

- a.- Temp. rise : 40°C max.
- b.- Rated current : Base on temp. rise & $\Delta L/L0A = 10\%$ 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 |

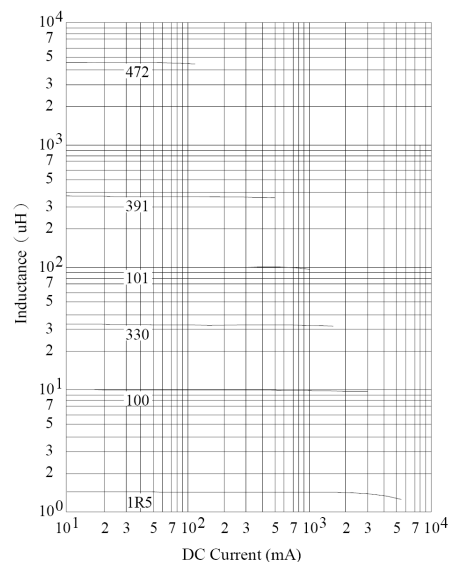
PS0908 (1.5 μ H - 15000 μ H)

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

6. Curve

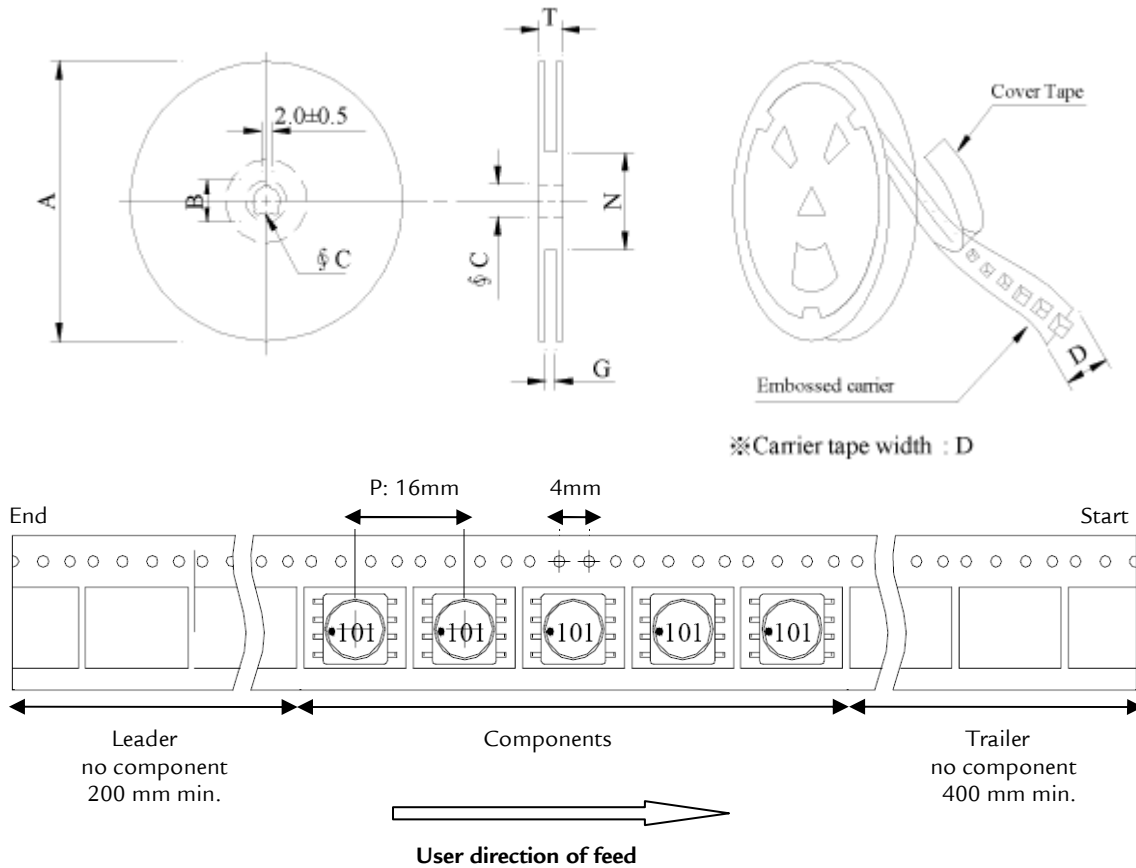
Inductance VS. DC Current Curve

PS0908



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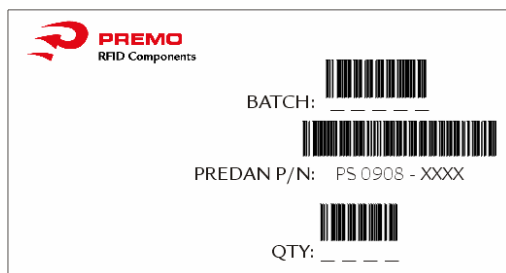
7. Packaging Information



| 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



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% | $\frac{\text{Room temp.}}{15 \text{ minutes}} \longrightarrow \frac{-25\pm 2^{\circ}\text{C}}{30 \text{ minutes}}$ $\frac{\text{Room temp.}}{15 \text{ minutes}} \longrightarrow \frac{85\pm 2^{\circ}\text{C}}{30 \text{ minutes}}$ 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 |
|-----------------|----------|----------------------|------------|
| 1 st | 31/08/06 | Update Specification | Pablo Pozo |