

# PRODUCT SPECIFICATION



|                 |                                        |          |   |
|-----------------|----------------------------------------|----------|---|
| Product Name    | 1008 WIRE WOUND CERAMIC CHIP INDUCTORS | Page     | 1 |
| TAMURA Part No. | T1008-XXX                              | Rev. No. | 0 |

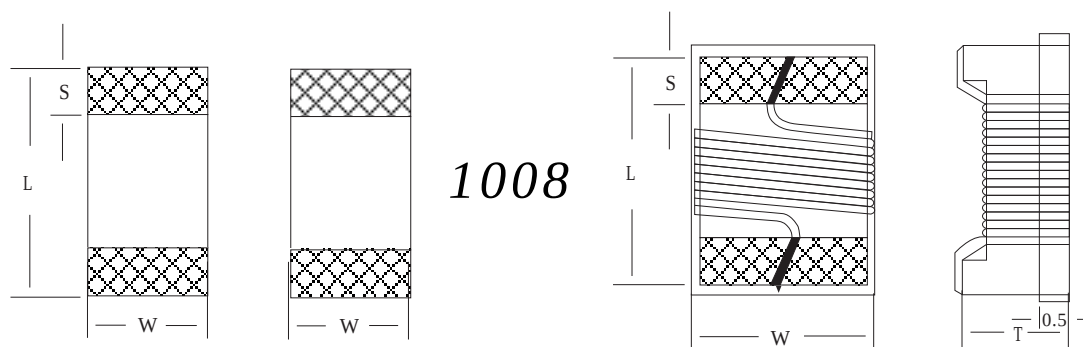
## Features:

- Small and lightweight.
- Wide inductance range, 4.7nH to 820nH.
- Excellent solderability and resistance to soldering heat, suitable for flow and reflow soldering.
- Minimum dimensions, high reliability and high speed surface mount assembly.

## Application:

1. Prevention of electromagnetic interference to signals on the secondary side of electric equipment
2. Telecommunication products, mobile phone, pagers, cellular phone, computers. Modems, OA products, TVs, VCRs. etc.

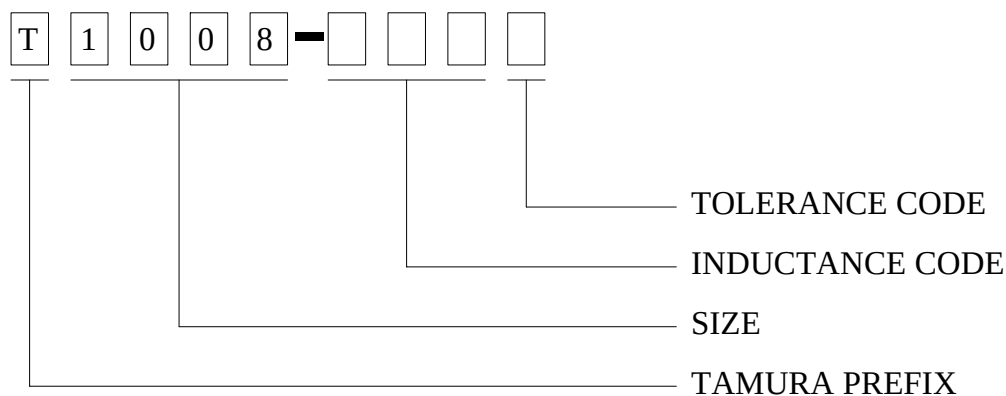
## 1. CONFIGURATION & DIMENSIONS :



| Size Code |            | L ± 0.2 | W ± 0.2 | T ± 0.2 | S ± 0.2 |
|-----------|------------|---------|---------|---------|---------|
| Japan     | USA/Europe |         |         |         |         |
| 2520      | 1008       | 2.70    | 2.50    | 2.05    | 0.50    |

All dimensions in mm

## 2. Part No. FORMAT :



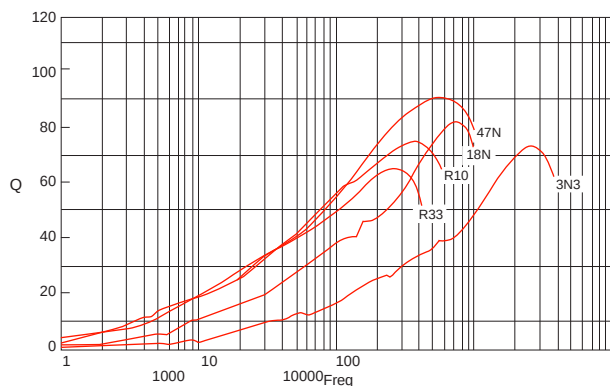
Tolerance Code: J=± 5%, G= ± 2%

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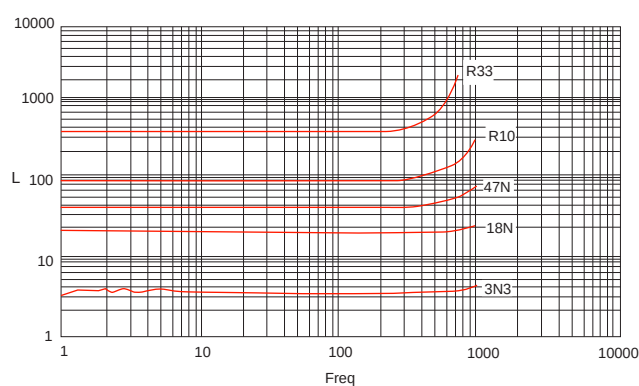


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Q VS Freq Plot



L VS Freq Plot



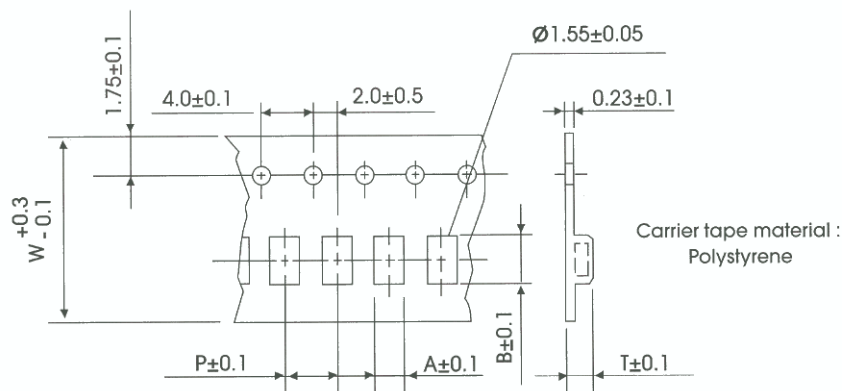
| PART No.    | Inductance<br>(nH) | Q<br>Min    | RDC<br>Max (Ohms) | I DC<br>Max (mA) | SRF<br>Min (MHz) |
|-------------|--------------------|-------------|-------------------|------------------|------------------|
| T1008 - 4N7 | 4.7@ 50MHz         | 40@ 1000MHz | 0.15              | 1000             | 4100             |
| T1008 - 10N | 10@ 50MHz          | 50@ 500MHz  | 0.08              | 1000             | 4100             |
| T1008 - 12N | 12@ 50MHz          | 50@ 500MHz  | 0.09              | 1000             | 3300             |
| T1008 - 15N | 15@ 50MHz          | 45@ 500MHz  | 0.13              | 1000             | 2500             |
| T1008 - 18N | 18@ 50MHz          | 50@ 350MHz  | 0.11              | 1000             | 2500             |
| T1008 - 22N | 22@ 50MHz          | 55@ 350MHz  | 0.12              | 1000             | 2400             |
| T1008 - 27N | 27@ 50MHz          | 45@ 350MHz  | 0.13              | 1000             | 1600             |
| T1008 - 33N | 33@ 50MHz          | 55@ 350MHz  | 0.14              | 1000             | 1600             |
| T1008 - 39N | 39@ 50MHz          | 60@ 350MHz  | 0.15              | 1000             | 1500             |
| T1008 - 47N | 47@ 50MHz          | 55@ 350MHz  | 0.16              | 1000             | 1500             |
| T1008 - 56N | 56@ 50MHz          | 60@ 350MHz  | 0.18              | 1000             | 1300             |
| T1008 - 68N | 68@ 50MHz          | 60@ 350MHz  | 0.20              | 1000             | 1300             |
| T1008 - 82N | 82@ 50MHz          | 55@ 350MHz  | 0.22              | 1000             | 1000             |
| T1008 - R10 | 100@ 25MHz         | 60@ 350MHz  | 0.24              | 650              | 1000             |
| T1008 - R12 | 120@ 25MHz         | 55@ 350MHz  | 0.28              | 650              | 950              |
| T1008 - R15 | 150@ 25MHz         | 45@ 100MHz  | 0.30              | 580              | 850              |
| T1008 - R18 | 180@ 25MHz         | 40@ 100MHz  | 0.32              | 620              | 750              |
| T1008 - R22 | 220@ 25MHz         | 45@ 100MHz  | 0.36              | 500              | 700              |
| T1008 - R27 | 270@ 25MHz         | 40@ 100MHz  | 0.40              | 500              | 600              |
| T1008 - R33 | 330@ 25MHz         | 40@ 100MHz  | 0.45              | 450              | 570              |
| T1008 - R39 | 390@ 25MHz         | 40@ 100MHz  | 0.79              | 470              | 500              |
| T1008 - R47 | 470@ 25MHz         | 40@ 100MHz  | 0.88              | 470              | 450              |
| T1008 - R56 | 560@ 25MHz         | 40@ 100MHz  | 1.33              | 400              | 415              |
| T1008 - R62 | 620@ 25MHz         | 40@ 100MHz  | 1.41              | 300              | 375              |
| T1008 - R68 | 680@ 25MHz         | 40@ 100MHz  | 1.47              | 400              | 375              |
| T1008 - R75 | 750@ 25MHz         | 40@ 100MHz  | 1.54              | 360              | 360              |
| T1008 - R82 | 820@ 25MHz         | 40@ 100MHz  | 1.61              | 400              | 350              |
| T1008 - R91 | 910@ 25MHz         | 35@ 50MHz   | 1.68              | 380              | 320              |
| T1008 - 1R0 | 1000@ 25MHz        | 35@ 50MHz   | 1.98              | 370              | 290              |
| T1008 - 1R2 | 1200@ 7.9MHz       | 30@ 50MHz   | 2.18              | 310              | 250              |
| T1008 - 1R5 | 1500@ 7.9MHz       | 25@ 50MHz   | 2.30              | 330              | 200              |
| T1008 - 1R8 | 1800@ 7.9MHz       | 22@ 50MHz   | 2.60              | 300              | 160              |
| T1008 - 2R7 | 2700@ 7.9MHz       | 22@ 25MHz   | 3.55              | 290              | 140              |
| T1008 - 3R9 | 3900@ 7.9MHz       | 20@ 25MHz   | 5.26              | 260              | 100              |
| T1008 - 4R7 | 4700@ 7.9MHz       | 20@ 25MHz   | 5.79              | 260              | 90               |
| T1008 - 5R6 | 5600@ 7.9MHz       | 20@ 7.9MHz  | 8.38              | 240              | 20               |
| T1008 - 6R8 | 6800@ 7.9MHz       | 20@ 7.9MHz  | 9.20              | 200              | 40               |
| T1008 - 8R2 | 8200@ 7.9MHz       | 20@ 7.9MHz  | 14.2              | 170              | 25               |

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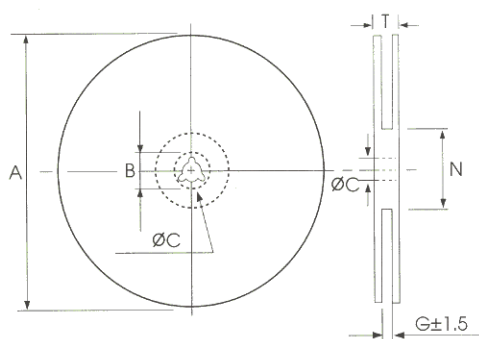
## 3. PACKAGING INFORMATION :



| Package Size | A    | B    | W  | P | T   | Carrier Material | Tape/Cover Material | Qty. Units / reel | # Reels /Carton | Carton Size (LxWxH) |
|--------------|------|------|----|---|-----|------------------|---------------------|-------------------|-----------------|---------------------|
| 0402         | 0.65 | 1.15 | 8  | 2 | N/A | plastic          | plastic             | 10,000            | 36              | 400*265*238         |
| 0603         | 1.08 | 1.88 | 8  | 4 | N/A | plastic          | plastic             | 3000              | 36              | 400*265*238         |
| 0805         | 1.50 | 2.30 | 8  | 4 | 0.3 | plastic          | plastic             | 3000              | 36              | 400*265*238         |
| 1008         | N/A  | N/A  | 8  | 4 | 0.3 | plastic          | plastic             | 2000              | 36              | 400*265*238         |
| 1210         | 1.88 | 3.50 | 8  | 4 | 0.3 | plastic          | plastic             | 2000              | 50              | 390*215*390         |
| 1812         | N/A  | N/A  | 12 | 8 | 0.3 | plastic          | plastic             | 500               | 40              | 390*215*390         |

Dimensions in mm

REEL DIMENSIONS  
Material: Paper, Plastic



| TYPE | 8mm       | 12mm      |
|------|-----------|-----------|
| A    | 178± 2    | 178± 2    |
| B    | 21.0± 0.8 | 21.0± 0.8 |
| C    | 13.0± 0.8 | 13.0± 0.8 |
| G    | 10.0      | 14.0      |
| N    | 75        | 75        |
| T    | 12.5      | 16.5      |

