



www.niccomp.com/pcn | Technical Support: tpmg@niccomp.com

January 9, 2013

SUB: Product Change Notification, EOL Notice – Discontinued Product

Products Impacted by this notice: **0603 case size** thin film chip inductors

NIC Part Numbers: See below **EOL part number** table below;

EFFECTIVE: Last Order Date: January 31st 2013 / Last Delivery Date: February 28th 2013

REASON FOR CHANGE: Reduced market demand for 0603 case size

Suggested Alternates & Replacements

- 1.) Same Size 0603 Case Size - **NML06** Multilayer Chip Inductors / Designed for High Frequency Applications / High Q and SRF Characteristics
- 2.) Same Construction - **Thin Film Construction NTI04** in smaller **0402** case size

| Inductance (nH) | EOL Part Number | NML06 Alternative | NTI04 Alternative |
|--------------------|--------------------|----------------------|----------------------|
| 1 | NTI06_1N0TRF | NML06D1N0TRF | NTI04_1N0TRF |
| 1.2 | NTI06_1N2TRF | NML06D1N2TRF | NTI04_1N2TRF |
| 1.5 | NTI06_1N5TRF | NML06D1N5TRF | NTI04_1N5TRF |
| 1.8 | NTI06_1N8TRF | NML06D1N8TRF | NTI04_1N8TRF |
| 2.2 | NTI06_2N2TRF | NML06D2N2TRF | NTI04_2N2TRF |
| 2.7 | NTI06_2N7TRF | NML06D2N7TRF | NTI04_2N7TRF |
| 3.3 | NTI06_3N3TRF | NML06D3N3TRF | NTI04_3N3TRF |
| 3.9 | NTI06_3N9TRF | NML06D3N9TRF | NTI04_3N9TRF |
| 4.7 | NTI06_4N7TRF | NML06D4N7TRF | NTI04_4N7TRF |
| 5.6 | NTI06_5N6TRF | NML06D5N6TRF | NTI04_5N6TRF |
| 6.8 | NTI06_6N8TRF | NML06J6N8TRF | NTI04_6N8TRF |
| 8.2 | NTI06_8N2TRF | NML06J8N2TRF | NTI04_8N2TRF |
| 10 | NTI06_10NTRF | NML06J10NTRF | NTI04_10NTRF |
| 12 | NTI06_12NTRF | NML06J12NTRF | NTI04_12NTRF |
| 15 | NTI06_15NTRF | NML06J15NTRF | NTI04_15NTRF |
| 18 | NTI06_18NTRF | NML06J18NTRF | NTI04_18NTRF |
| 22 | NTI06_22NTRF | NML06J22NTRF | NTI04_22NTRF |
| 27 | NTI06_27NTRF | NML06J27NTRF | NTI04_27NTRF |
| 33 | NTI06_33NTRF | NML06J33NTRF | NTI04_33NTRF |
| 39 | NTI06_39NTRF | NML06J39NTRF | <-- |
| 47 | NTI06_47NTRF | NML06J47NTRF | <-- |
| 56 | NTI06_56NTRF | NML06J56NTRF | <-- |
| 68 | NTI06_68NTRF | NML06J68NTRF | <-- |
| 100 | NTI06_R10TRF | NML06JR10TRF | <-- |

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FEATURES

- ULTRA-SMALL LOW PROFILE 0201, 0402 & 0603 SIZES
- HIGH CURRENT & HIGH SRF
- COMPATIBLE WITH Pb-FREE SOLDERING
- RoHS COMPLIANT

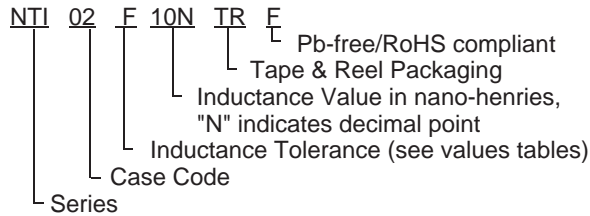
**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details

CHARACTERISTICS

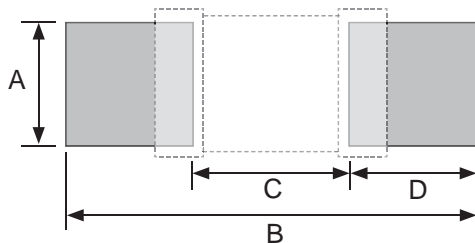
| Case Size | 0201 | 0402 | 0603 |
|---------------------------|--|--------------|---------------|
| Inductance Range | 0.1nH ~ 10nH | 0.2nH ~ 33nH | 1.0nH ~ 100nH |
| Available Tolerance | ±0.1nH (B), ±0.2nH (C), ±0.3nH (D), ±1% (F), ±2% (G) & ±5% (J) | | |
| Temperature Range | -40°C ~ +85°C | | |
| Resistance to Solder Heat | 260°C ±5°C for 5 seconds | | |
| Temperature Cycling | ΔL ≤10% after 10 cycles -40°C/+20°C/+85°C/+20°C | | |

PART NUMBER SYSTEM

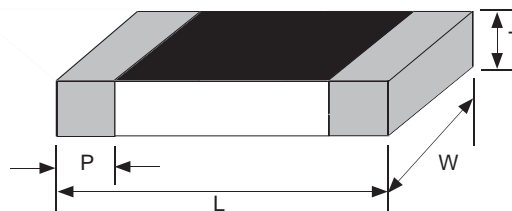
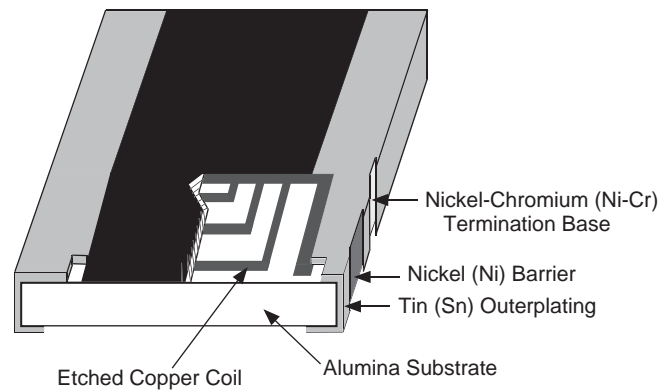


| CASE DIMENSIONS (mm) | | | | |
|----------------------|-------------|-------------|-------------|-------------|
| Case Size | L | W | T | P |
| 0201 | 0.60 ± 0.05 | 0.30 ± 0.05 | 0.23 ± 0.05 | 0.15 ± 0.05 |
| 0402 | 1.0 ± 0.05 | 0.5 ± 0.05 | 0.32 ± 0.05 | 0.20 ± 0.10 |
| 0603 | 1.6 ± 0.10 | 0.8 ± 0.10 | 0.45 ± 0.10 | 0.30 ± 0.20 |

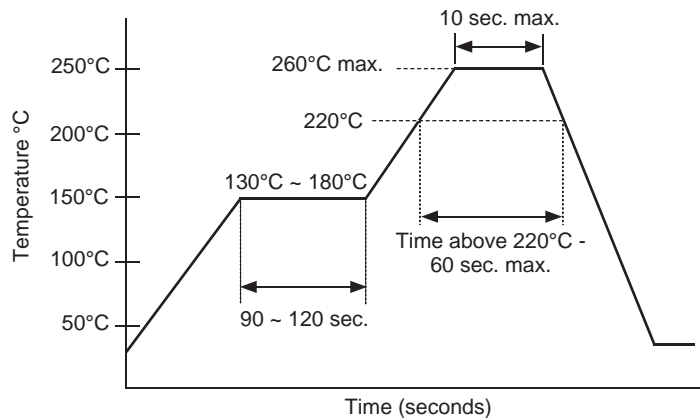
| LAND PATTERN DIMENSIONS (mm) | | | | |
|------------------------------|-----------|-----------|-----------|-----------|
| Case Size | A | B | C | D |
| 0201 | 0.2 ~ 0.3 | 0.8 ~ 0.9 | 0.2 ~ 0.3 | 0.3 ~ 0.4 |
| 0402 | 0.5 ~ 0.6 | 1.5 ~ 1.8 | 0.5 ~ 0.6 | 0.5 ~ 0.6 |
| 0603 | 0.6 ~ 1.0 | 2.4 ~ 2.8 | 0.7 ~ 0.9 | 0.9 ~ 1.1 |



CONSTRUCTION



REFLOW SOLDERING PROFILE



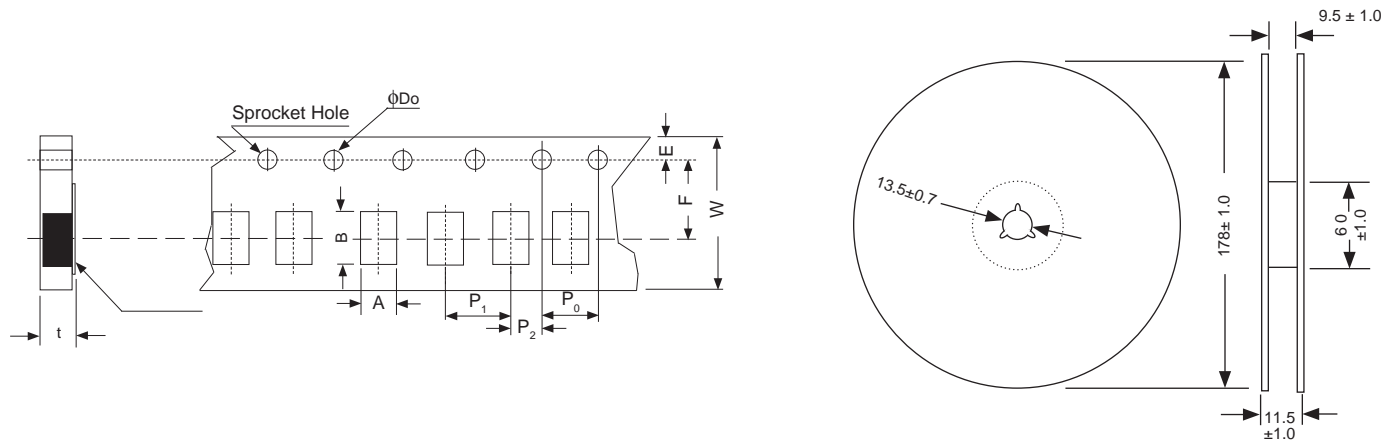
| Available Values - 0201 Case Size | | | | | | |
|-----------------------------------|--------------|---------------------------------|----------------------|--|--------------------------------|----------------|
| Inductance Value (nH) | Part Number | DC Resistance Max. (Ω) | DC Current Max. (mA) | Available Tolerances & Tolerance Codes | Q Factor Min. & Test Frequency | SRF Min. (GHz) |
| 0.1 | NTI02_0N1TRF | 0.20 | 400 | $\pm 0.1\text{nH}$ (B), $\pm 0.2\text{nH}$ (C), $\pm 0.3\text{nH}$ (D) | 8 min. @ 500MHz | 9 |
| 0.2 | NTI02_0N2TRF | | | | | |
| 0.3 | NTI02_0N3TRF | | | | | |
| 0.4 | NTI02_0N4TRF | 0.25 | 350 | | | |
| 0.5 | NTI02_0N5TRF | | | | | |
| 0.6 | NTI02_0N6TRF | | | | | |
| 0.7 | NTI02_0N7TRF | 0.30 | 300 | | | |
| 0.8 | NTI02_0N8TRF | | | | | |
| 0.9 | NTI02_0N9TRF | | | | | |
| 1.0 | NTI02_1N0TRF | 0.35 | 250 | | | |
| 1.1 | NTI02_1N1TRF | | | | | |
| 1.2 | NTI02_1N2TRF | 0.45 | 200 | | | |
| 1.3 | NTI02_1N3TRF | | | | | |
| 1.4 | NTI02_1N4TRF | | | | | |
| 1.5 | NTI02_1N5TRF | 0.55 | 200 | | | |
| 1.6 | NTI02_1N6TRF | | | | | |
| 1.7 | NTI02_1N7TRF | | | | | |
| 1.8 | NTI02_1N8TRF | 0.70 | 200 | | | |
| 1.9 | NTI02_1N9TRF | | | | | |
| 2.0 | NTI02_2N0TRF | | | | | |
| 2.1 | NTI02_2N1TRF | 0.80 | 150 | | | |
| 2.2 | NTI02_2N2TRF | | | | | |
| 2.3 | NTI02_2N3TRF | | | | | |
| 2.4 | NTI02_2N4TRF | 1.00 | 110 | | | |
| 2.5 | NTI02_2N5TRF | | | | | |
| 2.6 | NTI02_2N6TRF | | | | | |
| 2.7 | NTI02_2N7TRF | 1.20 | 100 | | | |
| 2.8 | NTI02_2N8TRF | | | | | |
| 2.9 | NTI02_2N9TRF | | | | | |
| 3.0 | NTI02_3N0TRF | 1.30 | 80 | | | |
| 3.1 | NTI02_3N1TRF | | | | | |
| 3.2 | NTI02_3N2TRF | | | | | |
| 3.3 | NTI02_3N3TRF | 1.40 | 130 | | | |
| 3.4 | NTI02_3N4TRF | | | | | |
| 3.5 | NTI02_3N5TRF | | | | | |
| 3.6 | NTI02_3N6TRF | 1.60 | 120 | | | |
| 3.7 | NTI02_3N7TRF | | | | | |
| 3.8 | NTI02_3N8TRF | | | | | |
| 3.9 | NTI02_3N9TRF | 1.80 | 110 | | | |
| 4.0 | NTI02_4N0TRF | | | | | |
| 4.4 | NTI02_4N4TRF | | | | | |
| 4.7 | NTI02_4N7TRF | 2.00 | 110 | | | |
| 4.9 | NTI02_4N9TRF | | | | | |
| 5.6 | NTI02_5N6TRF | | | | | |
| 6.1 | NTI02_6N1TRF | 2.30 | 100 | | | |
| 6.8 | NTI02_6N8TRF | | | | | |
| 7.4 | NTI02_7N4TRF | | | | | |
| 8.2 | NTI02_8N2TRF | 2.80 | 100 | | | |
| 9.1 | NTI02_9N1TRF | | | | | |
| 9.2 | NTI02_9N2TRF | | | | | |
| 10 | NTI02_10NTRF | 3.25 | 80 | $\pm 2\%$ (G), $\pm 5\%$ (J) | | 3 |
| | | 3.50 | 80 | | | 2 |

| Available Values - 0402 Case Size | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---------------|---------------------------------|----------------------|---|--------------------------------|--|------------------|--|------------------|--|--|--|--|------------------|------------------|--|--|------------------|------------------|--|------------------|--|------------------|-----|
| Inductance Value (nH) | Part Number | DC Resistance Max. (Ω) | DC Current Max. (mA) | Available Tolerances & Tolerance Codes | Q Factor Min. & Test Frequency | SRF Min. (GHz) | | | | | | | | | | | | | | | | | | |
| 0.2 | NTI04_0N2TRF | 0.10 | 800 | $\pm 0.1nH$ (B), $\pm 0.2nH$ (C), $\pm 0.3nH$ (D) | 13 min. @ 500MHz | 14 | | | | | | | | | | | | | | | | | | |
| 0.3 | NTI04_0N3TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 0.4 | NTI04_0N4TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | NTI04_0N5TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 0.8 | NTI04_0N8TRF | 0.15 | 700 | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 12 | | | | | | | | | | | | | | | | |
| 0.9 | NTI04_0N9TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | NTI04_1N0TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | NTI04_1N1TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | NTI04_1N2TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | NTI04_1N3TRF | 0.25 | 560 | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 10 | | | | | | | | | | | | | | |
| 1.4 | NTI04_1N4TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | NTI04_1N5TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6 | NTI04_1N6TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.7 | NTI04_1N7TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | NTI04_1N8TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 1.9 | NTI04_1N9TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | NTI04_2N0TRF | 0.35 | 440 | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | 8 | | | | | | | | | | | | | | |
| 2.1 | NTI04_2N1TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | NTI04_2N2TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.3 | NTI04_2N3TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | NTI04_2N4TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | NTI04_2N5TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.6 | NTI04_2N6TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.7 | NTI04_2N7TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 2.8 | NTI04_2N8TRF | 0.45 | 380 | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 6 | | | | | | | | | | | | | | |
| 2.9 | NTI04_2N9TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | NTI04_3N0TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 | NTI04_3N1TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | NTI04_3N2TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | NTI04_3N3TRF | 0.55 | 340 | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 6 | | | | | | | | | | | |
| 3.4 | NTI04_3N4TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5 | NTI04_3N5TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | NTI04_3N6TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7 | NTI04_3N7TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8 | NTI04_3N8TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 3.9 | NTI04_3N9TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 4.3 | NTI04_4N3TRF | 0.65 | 320 | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | 6 | | | | | | | | | | | | | | |
| 4.7 | NTI04_4N7TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 5.4 | NTI04_5N4TRF | | | 0.85 | 280 | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 6 | | | | | | | | | |
| 5.6 | NTI04_5N6TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 5.9 | NTI04_5N9TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 6.5 | NTI04_6N5TRF | 1.05 | 260 | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | | | 6 | | | | | | | | | | | | | | |
| 6.8 | NTI04_6N8TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 7.2 | NTI04_7N2TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | NTI04_8N0TRF | | | | | | | | | | | | | | 1.25 | 220 | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 6 | | | | | |
| 8.1 | NTI04_8N1TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 8.2 | NTI04_8N2TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 9.1 | NTI04_9N1TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | NTI04_10NTRF | 1.35 | 200 | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 5.5 | | | | | | | | | | | | | | |
| 10.8 | NTI04_10N8TRF | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | NTI04_12NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 13.8 | NTI04_13N8TRF | 1.55 | 180 | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 3.7 | | | | | | | | | | | | |
| 15 | NTI04_15NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | NTI04_17NTRF | 1.75 | 130 | | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | | | 13 min. @ 500MHz | 3.3 | | | | | | | | |
| 18 | NTI04_18NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 20.8 | NTI04_20N8TRF | 1.95 | 100 | | | | | | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | | | 13 min. @ 500MHz | 3.1 | | | | |
| 22 | NTI04_22NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | NTI04_27NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | NTI04_22NTRF | 2.55 | 90 | | | | | | | | | | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 2.8 | | |
| 27 | NTI04_27NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | NTI04_33NTRF | 2.65 | 75 | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | | | | | | | | | | | | | 2.5 | | |
| 33 | NTI04_33NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | NTI04_33NTRF | 3.25 | 75 | | | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | | | | | | 2.5 | | |
| 33 | NTI04_33NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | NTI04_33NTRF | 4.50 | 75 | | | | | | | | | | | | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | 2.5 |
| 33 | NTI04_33NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | NTI04_33NTRF | 4.50 | 75 | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | | | | | | | | | | | | | | | | | 2.5 |
| 33 | NTI04_33NTRF | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | NTI04_33NTRF | 4.50 | 75 | | | | | | | | | | | | | | $\pm 1\%$ (F), $\pm 2\%$ (G) & $\pm 5\%$ (J) | 13 min. @ 500MHz | | | | | | 2.5 |
| 33 | NTI04_33NTRF | | | | | | | | | | | | | | | | | | | | | | | |

| Available Values - 0603 Case Size | | | | | | | | |
|-----------------------------------|--------------|---------------------------------|----------------------|--|--------------------------------|---|-------------|---|
| Inductance Value (nH) | Part Number | DC Resistance Max. (Ω) | DC Current Max. (mA) | Available Tolerances & Tolerance Codes | Q Factor Min. & Test Frequency | SRF Min. (GHz) | | |
| 1.0 | NTI06_1N0TRF | 0.35 | 800 | $\pm 0.1\text{nH}$ (B), $\pm 0.2\text{nH}$ (C), $\pm 0.3\text{nH}$ (D) | 15 @ 300MHz | 13 | | |
| 1.2 | NTI06_1N2TRF | | | | | | | |
| 1.5 | NTI06_1N5TRF | | | | | | | |
| 1.8 | NTI06_1N8TRF | | | | | | | |
| 2.2 | NTI06_2N2TRF | 0.45 | 300 | | | | | |
| 2.7 | NTI06_2N7TRF | | | | | | | |
| 3.3 | NTI06_3N3TRF | | | | | | | |
| 3.9 | NTI06_3N9TRF | | | | | | | |
| 4.7 | NTI06_4N7TRF | 0.55 | 250 | | | $\pm 1\%$ (F), $\pm 2\%$ (G), $\pm 5\%$ (J) | 15 @ 300MHz | 5 |
| 5.6 | NTI06_5N6TRF | 0.65 | | | | | | |
| 6.8 | NTI06_6N8TRF | 0.75 | | | | | | |
| 8.2 | NTI06_8N2TRF | 0.95 | | | | | | |
| 10 | NTI06_10NTRF | 1.05 | 200 | 1.5 | | | | |
| 12 | NTI06_12NTRF | 1.35 | | | | | | |
| 15 | NTI06_15NTRF | 1.65 | | | | | | |
| 18 | NTI06_18NTRF | 1.95 | | | | | | |
| 22 | NTI06_22NTRF | 2.35 | 150 | 1 | | | | |
| 27 | NTI06_27NTRF | 2.75 | | | | | | |
| 33 | NTI06_33NTRF | 3.00 | | | | | | |
| 39 | NTI06_39NTRF | 5.00 | | | | | | |
| 47 | NTI06_47NTRF | 7.50 | 100 | | | | | |
| 56 | NTI06_56NTRF | | | | | | | |
| 68 | NTI06_68NTRF | | | | | | | |
| 100 | NTI06_R10TRF | | | | | | | |

TAPE AND REEL DIMENSIONS (mm)

| Type | A | B | E | F | W | P ₀ | P ₁ | P ₂ | t | Reel Quantity |
|-------|-------------|-------------|-------------|------------|------------|----------------|----------------|----------------|-------------|---------------|
| NTI02 | 0.40 ± 0.05 | 0.70 ± 0.05 | 1.75 ± 0.05 | 3.5 ± 0.05 | 8.0 ± 0.10 | 4.0 ± 0.10 | 2.0 ± 0.05 | 2.0 ± 0.05 | 0.42 ± 0.02 | 10,000 |
| NTI04 | 0.70 ± 0.05 | 1.16 ± 0.05 | | | | | 4.0 ± 0.10 | | 0.40 ± 0.03 | |
| NTI06 | 1.10 ± 0.10 | 1.90 ± 0.10 | | | | | 0.60 ± 0.03 | | 5,000 | |



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