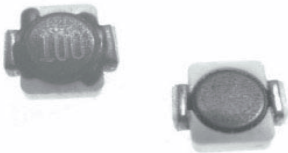


Mini Power Inductors

NAN Series

(NAN0610)



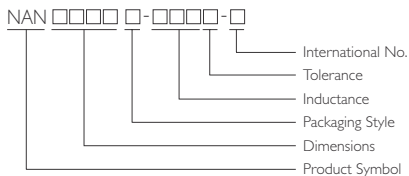
Features

- Very low profile.
- Constructed enclosed in a rugged to provide optimum pick and place operations.
- High inductance & high current ultra low profile power inductors.

Applications

- DC to DC converter
- LCD
- Mobile telephone

PRODUCT IDENTIFICATION



ELECTRICAL CHARACTERISTICS

| TYPE | Inductance L(μ H) ¹ | DCR (Ω) MAX. | IDC (mA) MAX. ² |
|-----------------|-------------------------------------|-----------------------|----------------------------|
| NAN0610T-1R2M-S | 1.20 | 0.08 | 2100 |
| NAN0610T-1R5M-S | 1.50 | 0.10 | 1900 |
| NAN0610T-2R2M-S | 2.20 | 0.12 | 1600 |
| NAN0610T-3R3M-S | 3.30 | 0.16 | 1300 |
| NAN0610T-4R7M-S | 4.70 | 0.20 | 1100 |
| NAN0610T-6R8M-S | 6.80 | 0.32 | 900 |
| NAN0610T-100M-S | 10.0 | 0.41 | 800 |
| NAN0610T-150M-S | 15.0 | 0.55 | 650 |
| NAN0610T-220M-S | 22.0 | 0.85 | 500 |
| NAN0610T-330M-S | 33.0 | 1.30 | 400 |
| NAN0610T-470M-S | 47.0 | 1.80 | 350 |
| NAN0610T-680M-S | 68.0 | 2.50 | 300 |
| NAN0610T-101M-S | 100 | 3.50 | 250 |
| NAN0610T-151M-S | 150 | 5.00 | 180 |
| NAN0610T-221M-S | 220 | 7.00 | 160 |
| NAN0610T-331M-S | 330 | 15.0 | 130 |

1. Test Frequency 100KHZ / 0.1Vrms.

2. DC current at which the Inductance drops 10%(typ) from its value without current.

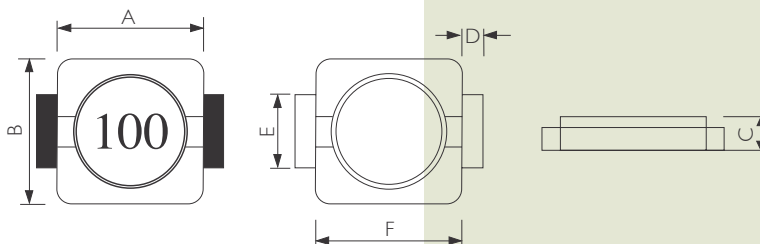
3. Operating Temperature Range -40°C to 85°C

4. Electrical specification at 25°C

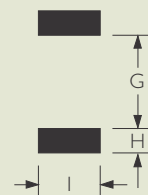
5. Inductance : M : $\pm 20\%$

SHAPE AND DIMENSIONS

Dimensions : mm



LAND PATTERNS PCB

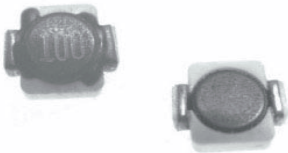


| TYPE | A | B | C | D | E | F | G | H | I |
|---------|--------|---------------|--------|-----|-----|-----|-----|-----|-----|
| NAN0610 | 6.5MAX | 5.3 \pm 0.3 | 1.0MAX | 0.9 | 3.0 | 4.5 | 4.0 | 1.0 | 2.3 |

Mini Power Inductors

NAN Series

(NAN0612)



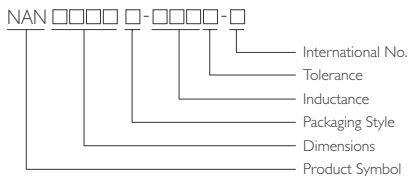
Features

- Very low profile.
- Constructed enclosed in a rugged to provide optimum pick and place operations.
- High inductance & high current ultra low profile power inductors.

Applications

- DC to DC converter
- LCD
- Mobile telephone

PRODUCT IDENTIFICATION



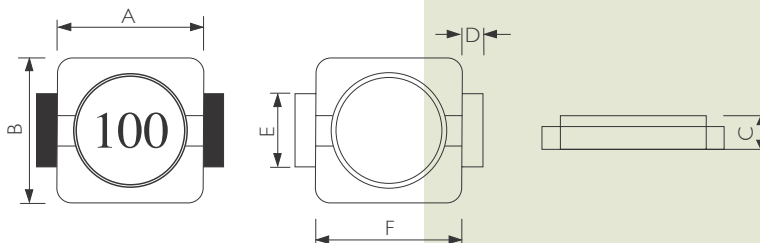
ELECTRICAL CHARACTERISTICS

| TYPE | Inductance L(μ H) ¹ | DCR (Ω) MAX. | IDC (mA) MAX. ² |
|-----------------|-------------------------------------|-----------------------|----------------------------|
| NAN0612T-1R2M-S | 1.20 | 0.060 | 1800 |
| NAN0612T-2R2M-S | 2.20 | 0.125 | 1200 |
| NAN0612T-3R3M-S | 3.30 | 0.155 | 960.0 |
| NAN0612T-4R7M-S | 4.70 | 0.206 | 900.0 |
| NAN0612T-6R8M-S | 6.80 | 0.240 | 800.0 |
| NAN0612T-100M-S | 10.0 | 0.370 | 700.0 |
| NAN0612T-150M-S | 15.0 | 0.460 | 600.0 |
| NAN0612T-180M-S | 18.0 | 0.580 | 560.0 |
| NAN0612T-220M-S | 22.0 | 0.668 | 500.0 |
| NAN0612T-270M-S | 27.0 | 0.950 | 450.0 |
| NAN0612T-330M-S | 33.0 | 1.100 | 420.0 |
| NAN0612T-390M-S | 39.0 | 1.280 | 380.0 |
| NAN0612T-470M-S | 47.0 | 1.380 | 340.0 |
| NAN0612T-560M-S | 56.0 | 1.700 | 300.0 |
| NAN0612T-680M-S | 68.0 | 2.100 | 280.0 |
| NAN0612T-820M-S | 82.0 | 2.700 | 260.0 |
| NAN0612T-101M-S | 100.0 | 3.100 | 235.0 |

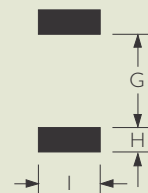
1. Test Frequency 100KHZ / 0.1Vrms.
2. DC current at which the Inductance drops 10%(typ) from its value without current.
3. Operating Temperature Range -40°C to 85°C
4. Electrical specification at 25°C
5. Inductance : M : $\pm 20\%$

SHAPE AND DIMENSIONS

Dimensions : mm



LAND PATTERNS PCB

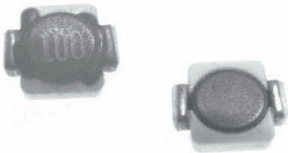


| TYPE | A | B | C | D | E | F | G | H | I |
|---------|-----|---------------|-----|-----|-----|-----|-----|-----|-----|
| NAN0612 | 6.6 | 5.3 \pm 0.3 | 1.2 | 0.9 | 3.0 | 4.5 | 4.0 | 1.0 | 2.3 |

Mini Power Inductors

NAN Series

(NAN0620)



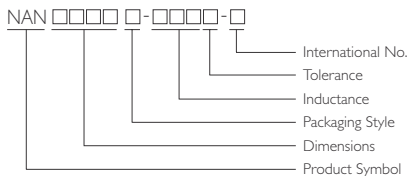
Features

- Very low profile.
- Constructed enclosed in a rugged to provide optimum pick and place operations.
- High inductance & high current ultra low profile power inductors.

Applications

- DC to DC converter
- LCD
- Mobile telephone

PRODUCT IDENTIFICATION



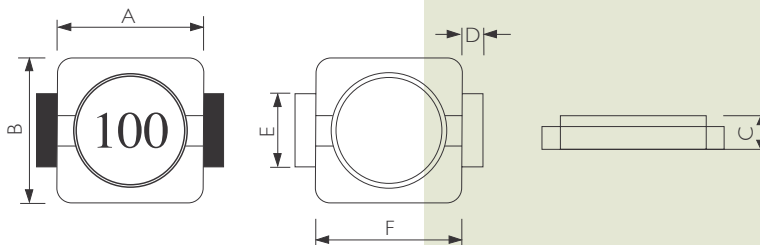
ELECTRICAL CHARACTERISTICS

| TYPE | Inductance L(μH) ¹ | DCR (Ω) MAX. | IDC (mA) MAX. ² |
|-----------------|-------------------------------|--------------|----------------------------|
| NAN0620T-1R0M-S | 1.00 | 0.04 | 2500 |
| NAN0620T-1R5M-S | 1.50 | 0.06 | 2200 |
| NAN0620T-2R2M-S | 2.20 | 0.07 | 1800 |
| NAN0620T-3R3M-S | 3.30 | 0.11 | 1400 |
| NAN0620T-4R7M-S | 4.70 | 0.12 | 1200 |
| NAN0620T-6R8M-S | 6.80 | 0.19 | 1100 |
| NAN0620T-100M-S | 10.0 | 0.30 | 1000 |
| NAN0620T-150M-S | 15.0 | 0.40 | 800 |
| NAN0620T-220M-S | 22.0 | 0.54 | 600 |
| NAN0620T-330M-S | 33.0 | 0.74 | 500 |
| NAN0620T-470M-S | 47.0 | 1.10 | 450 |
| NAN0620T-680M-S | 68.0 | 1.60 | 350 |
| NAN0620T-101M-S | 100 | 2.30 | 300 |
| NAN0620T-151M-S | 150 | 3.20 | 250 |
| NAN0620T-221M-S | 220 | 5.70 | 200 |
| NAN0620T-331M-S | 330 | 8.20 | 160 |
| NAN0620T-471M-S | 470 | 10.8 | 140 |
| NAN0620T-681M-S | 680 | 17.2 | 120 |
| NAN0620T-102M-S | 1000 | 22.6 | 80 |

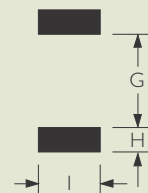
1. Test Frequency 100KHZ / 0.1Vrms.
2. DC current at which the Inductance drops 10%(typ) from its value without current.
3. Operating Temperature Range -40°C to 85°C
4. Electrical specification at 25°C
5. Inductance : M : ±20%

SHAPE AND DIMENSIONS

Dimensions : mm



LAND PATTERNS PCB



| TYPE | A | B | C | D | E | F | G | H | I |
|---------|--------|---------|--------|-----|-----|-----|-----|-----|-----|
| NAN0620 | 6.5MAX | 5.3±0.3 | 2.0MAX | 0.9 | 3.0 | 4.5 | 4.0 | 1.0 | 2.3 |