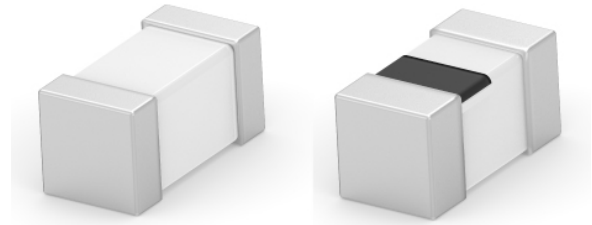


AUTOMOTIVE GRADE MULTILAYER CHIP INDUCTOR

TYPE 3655 SERIES

INTRODUCTION

TE Connectivity (TE) introduces its automotive grade multilayer chip inductors. The 3655 series inductors are designed with a low loss ceramic monolithic structure with high conductivity metal electrodes. The inductors are also designed for high frequency performance and are AEC-Q200 compliant and available in two package sizes.



FEATURES

- High frequency performance
- High self-resonant frequency
- High reliability
- AEC-Q200 qualified
- Moisture sensitivity level - MSL2

APPLICATIONS

- Automotive multi-media system
- Wireless connection system
- Automobile power system
- Safety management system

ELECTRICAL CHARACTERISTICS

36550402/HQ Material

| Inductance (Nh) | Tolerance | Q minimum | Test frequency (MHz) | Test voltage (Mv) | SRF minimum (MHz) | RDC (Ω) maximum | IDC (Ma) maximum |
|-----------------|------------------------------------|-----------|----------------------|-------------------|-------------------|--------------------------|------------------|
| 1.0 | $\pm 0.1nH, \pm 0.2nH, \pm 0.3nH$ | 8 | 100 | 50 | 10000 | 0.06 | 1000 |
| 1.1 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 10000 | 0.07 | 1000 |
| 1.2 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 10000 | 0.07 | 1000 |
| 1.3 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 10000 | 0.07 | 1000 |
| 1.5 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.08 | 1000 |
| 1.6 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.08 | 1000 |
| 1.8 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.08 | 900 |
| 2.0 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.09 | 900 |
| 2.2 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.09 | 900 |
| 2.4 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.10 | 800 |
| 2.7 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.12 | 800 |

Automotive Grade Multilayer Chip Inductor

Type 3655 Series

ELECTRICAL CHARACTERISTICS

36550402/HQ Material

| Inductance (Nh) | Tolerance | Q minimum | Test frequency (MHz) | Test voltage (Mv) | SRF minimum (MHz) | RDC (Ω) maximum | IDC (Ma) maximum |
|-----------------|------------------------------------|-----------|----------------------|-------------------|-------------------|--------------------------|------------------|
| 3.0 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.12 | 800 |
| 3.3 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 6000 | 0.13 | 800 |
| 3.6 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 4000 | 0.15 | 700 |
| 3.9 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 4000 | 0.16 | 700 |
| 4.3 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 4000 | 0.16 | 700 |
| 4.7 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 4000 | 0.16 | 700 |
| 5.1 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 4000 | 0.16 | 600 |
| 5.6 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 4000 | 0.20 | 600 |
| 6.2 | $\pm 0.1nH, \pm 0.2 nH, \pm 0.3nH$ | 8 | 100 | 50 | 3900 | 0.20 | 600 |
| 6.8 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 3900 | 0.20 | 600 |
| 7.5 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 3700 | 0.24 | 500 |
| 8.2 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 3600 | 0.24 | 500 |
| 9.1 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 3400 | 0.26 | 500 |
| 10 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 3200 | 0.26 | 500 |
| 12 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 2700 | 0.50 | 400 |
| 15 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 2300 | 0.50 | 400 |
| 18 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 2100 | 0.60 | 350 |
| 20 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 2000 | 0.60 | 350 |
| 22 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 1900 | 0.60 | 350 |
| 27 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 1600 | 0.70 | 300 |
| 33 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 1300 | 0.80 | 300 |
| 39 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 1200 | 1.00 | 250 |
| 43 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 1100 | 1.10 | 250 |
| 47 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 1000 | 1.10 | 250 |
| 56 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 750 | 1.20 | 200 |
| 68 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 750 | 1.40 | 200 |
| 82 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 750 | 1.60 | 200 |
| 100 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 700 | 2.00 | 200 |
| 120 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 600 | 2.50 | 150 |
| 150 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 550 | 3.00 | 150 |
| 180 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 500 | 3.50 | 150 |
| 220 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 450 | 3.70 | 100 |
| 270 | $\pm 3\%, \pm 5\%$ | 8 | 100 | 50 | 400 | 4.50 | 100 |
| 330 | $\pm 3\%, \pm 5\%$ | 6 | 50 | 50 | 350 | 5.00 | 80 |
| 360 | $\pm 3\%, \pm 5\%$ | 6 | 50 | 50 | 300 | 6.00 | 80 |

Note:

- Operating temperature range: -55°C - $+125^{\circ}\text{C}$ (including self heating temperature)

Automotive Grade Multilayer Chip Inductor

Type 3655 Series

ELECTRICAL CHARACTERISTICS

36550603/H Material

| Inductance (Nh) | Tolerance | Q minimum | Test frequency (MHz) | Test voltage (Mv) | SRF minimum (MHz) | RDC (Ω) maximum | IDC (Ma) maximum |
|-----------------|------------------------|-----------|----------------------|-------------------|-------------------|--------------------------|------------------|
| 1.0 | $\pm 0.3nH, \pm 0.5nH$ | 8 | 100 | 50 | 10000 | 0.05 | 500 |
| 1.2 | $\pm 0.3nH, \pm 0.5nH$ | 8 | 100 | 50 | 10000 | 0.05 | 500 |
| 1.5 | $\pm 0.3nH, \pm 0.5nH$ | 8 | 100 | 50 | 6000 | 0.10 | 500 |
| 1.8 | $\pm 0.3nH, \pm 0.5nH$ | 8 | 100 | 50 | 6000 | 0.10 | 500 |
| 2.0 | $\pm 0.3nH, \pm 0.5nH$ | 8 | 100 | 50 | 6000 | 0.10 | 500 |
| 2.2 | $\pm 0.3nH, \pm 0.5nH$ | 8 | 100 | 50 | 6000 | 0.10 | 500 |
| 2.4 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.12 | 500 |
| 2.7 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.12 | 500 |
| 3.3 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.15 | 500 |
| 3.6 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.16 | 500 |
| 3.9 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.16 | 500 |
| 4.3 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.18 | 500 |
| 4.7 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 6000 | 0.20 | 500 |
| 5.1 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 5500 | 0.25 | 500 |
| 5.6 | $\pm 0.3nH, \pm 0.5nH$ | 10 | 100 | 50 | 5000 | 0.25 | 500 |
| 6.8 | $\pm 5\%, \pm 10\%$ | 10 | 100 | 50 | 5000 | 0.30 | 500 |
| 7.5 | $\pm 5\%, \pm 10\%$ | 10 | 100 | 50 | 4500 | 0.35 | 500 |
| 8.2 | $\pm 5\%, \pm 10\%$ | 10 | 100 | 50 | 4500 | 0.35 | 500 |
| 9.1 | $\pm 5\%, \pm 10\%$ | 10 | 100 | 50 | 3500 | 0.40 | 300 |
| 10 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 3500 | 0.40 | 300 |
| 12 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 3000 | 0.45 | 300 |
| 15 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 2300 | 0.50 | 300 |
| 18 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 2200 | 0.55 | 300 |
| 22 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 2000 | 0.60 | 300 |
| 27 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 1700 | 0.65 | 300 |
| 33 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 1500 | 0.70 | 300 |
| 39 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 1400 | 0.70 | 300 |
| 47 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 1200 | 0.70 | 300 |
| 56 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 1100 | 0.75 | 300 |
| 68 | $\pm 5\%, \pm 10\%$ | 12 | 100 | 50 | 900 | 0.85 | 300 |
| 82 | $\pm 5\%, \pm 10\%$ | 8 | 100 | 50 | 800 | 1.00 | 300 |
| 100 | $\pm 5\%, \pm 10\%$ | 8 | 100 | 50 | 700 | 1.20 | 300 |
| 120 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 600 | 1.40 | 200 |
| 150 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 500 | 1.60 | 200 |
| 180 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 400 | 1.90 | 200 |
| 220 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 350 | 2.40 | 200 |
| 270 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 350 | 2.60 | 150 |
| 330 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 350 | 2.80 | 150 |
| 390 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 300 | 3.20 | 150 |
| 430 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 280 | 3.40 | 150 |
| 470 | $\pm 5\%, \pm 10\%$ | 8 | 50 | 50 | 250 | 3.60 | 150 |

Note:

- Operating temperature range: -55°C - $+125^{\circ}\text{C}$ (including self heating temperature).

Automotive Grade Multilayer Chip Inductor

Type 3655 Series

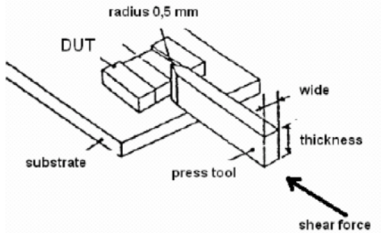
ENVIRONMENTAL CHARACTERISTICS

| Item | Requirement | Test Condition |
|-------------------------------------|---|---|
| High temperature exposure (Storage) | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | Temperature: 125°C, unpowered, duration 1000hrs. Examination at 250hrs, 500hrs and 1000hrs. Measurement at 24hrs ± 4 hrs after test conclusion. |
| Temperature cycle | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | High temperature: 125°C; Low temperature: -55°C. Duration at each temperature 30min; Transition time: ≤ 1 min; Severity: 1000 cycles. Measurement at 24hrs ± 4 hrs after test conclusion. |
| Biased humidity | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | High temperature: 125°C; Low temperature: -55°C. Duration at each temperature 30min; Transition time: ≤ 1 min; Severity: 1000 cycles. Measurement at 24hrs ± 4 hrs after test conclusion. |
| Operational life | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | Temperature: 125°C. Testing current: rated current at normal temperature. Duration: 1000hrs. Measurement at 24hrs ± 4 hrs after test conclusion. |
| Mechanical shock | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | Half sine wave. Peak value 100g. Normal duration 6ms Three shocks in each direction shall be applied along the three mutually perpendicular axes of the test specimen (18 shocks) |
| Vibration | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | The entire frequency range of 10-2000Hz and return to 10Hz shall be traversed in 20minutes. This cycle shall be performed 12 times in each of three mutually perpendicular directions (total of 36 times), so that the motion shall be applied for a total period of approximately 12hrs. Peak value 5g. |
| Resistance to soldering heat | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | Solder bath temperature: 260°C ± 5 °C. Immersion time: 10s ± 1 s. |
| Solderability | 95% or more of electrode area shall be coated by new solder. | Solder bath: Lead-free solder; Temperature: 245°C ± 5 °C. Immersion time: 3s ± 0.3 s. |
| Board flex | No visible damage. Inductance: $\Delta L/L$ within $\pm 10\%$ Q: $\Delta Q/Q$ within $\pm 20\%$ | The testing samples shall be mounted on a 100mm x 40mm FR4 PCB board, which is 1.6mm ± 0.2 mm thick. Bending shall be applied to the 2.0mm with 1.0mm/sec. Duration: 60s ± 5 s. |

Automotive Grade Multilayer Chip Inductor

Type 3655 Series

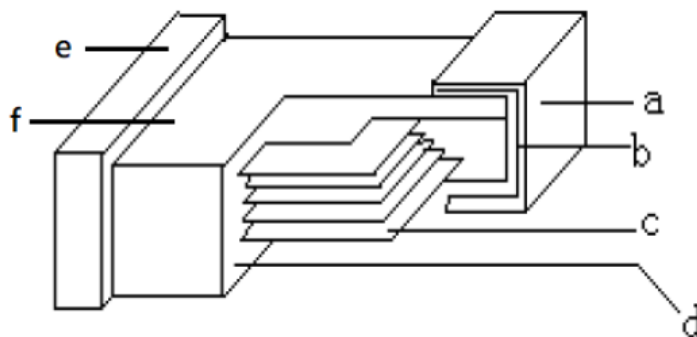
ELECTRICAL CHARACTERISTICS

| Item | Requirement | Test Condition |
|-------------------------|--|--|
| Terminal strength (SMD) | <p>No visible damage.</p> <p>Inductance: $\Delta L/L$ within $\pm 10\%$</p> <p>Q: $\Delta Q/Q$ within $\pm 20\%$</p> | <p>The testing samples shall be mounted on the testing boards.</p> <p>Apply a force of 0402 5N / 0603 10N to the side of the device being tested.</p> <p>Duration: 60s $\pm 1s$.</p>  |
| ESD | <p>No visible damage.</p> <p>Inductance: $\Delta L/L$ within $\pm 10\%$</p> <p>Q: $\Delta Q/Q$ within $\pm 20\%$</p> | <p>Direct contact discharge. Discharge voltage: 8000V.</p> <p>Positive and negative polarity tests once respectively.</p> |

Note:

- Storage temperature: -10°C-40°C; Humidity: 30%-70% RH.

CONSTRUCTION



| | | | |
|---|-----------------|---|--------------------|
| a | Ni/Sn Plating | d | Body |
| b | Ag Layer | e | Terminal Electrode |
| c | Inner Electrode | f | Ceramic |

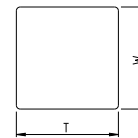
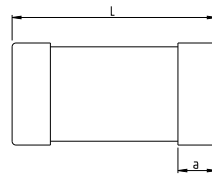
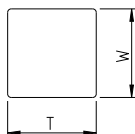
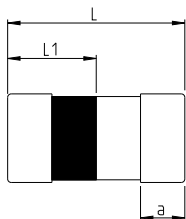
Automotive Grade Multilayer Chip Inductor

Type 3655 Series

DIMENSIONS

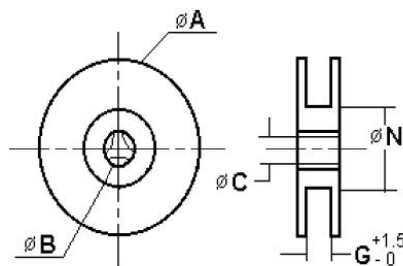
36550402

36550603



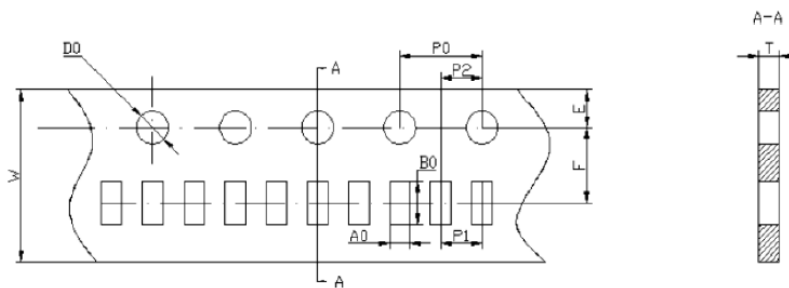
| Type | Size (Inch) | L (mm) | W (mm) | T (mm) | a (mm) | L1 (mm) | Weight (g) 1000pcs |
|------|-------------|-----------|------------|------------|------------|------------|--------------------|
| 3655 | 0402 | 1.00±0.15 | 0.50 ±0.15 | 0.50 ±0.15 | 0.25 ±0.10 | 0.50 ±0.15 | 1 |
| 3655 | 0603 | 1.60±0.20 | 0.80 ±0.20 | 0.80 ±0.20 | 0.30 ±0.20 | - | 3 |

PACKAGING SPECIFICATIONS



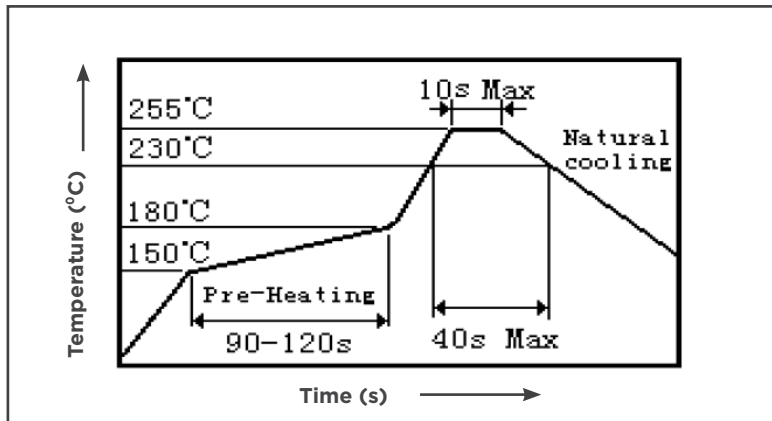
| Type | Size (Inch) | A (mm) | B (mm) | C (mm) | N (mm) | G (mm) | Quantity (EA) |
|------|-------------|--------|--------|-----------|--------|--------|---------------|
| 3655 | 0402 | 178 ±2 | 22 ±2 | 12.5 ±1.5 | 57 ±2 | 8 | 10,000 |
| 3655 | 0603 | 178 ±2 | 22 ±2 | 12.5 ±1.5 | 57 ±2 | 8 | 4,000 |

Tape Specifications



| Type | Size (Inch) | A0 (mm) | B0 (mm) | W (mm) | F (mm) | E (mm) | P1 (mm) | P2 (mm) | P0 (mm) | D0 (mm) | T (mm) |
|------|-------------|----------|----------|---------|---------|----------|---------|---------|---------|----------|----------|
| 3655 | 0402 | 0.65±0.1 | 1.15±0.1 | 8.0±0.2 | 3.5±0.1 | 1.75±0.2 | 2.0±0.1 | 2.0±0.1 | 4.0±0.2 | 1.55±0.1 | 0.60±0.1 |
| 3655 | 0603 | 1.10±0.2 | 1.90±0.2 | 8.0±0.2 | 3.5±0.1 | 1.75±0.2 | 4.0±0.2 | 2.0±0.1 | 4.0±0.2 | 1.55±0.1 | 0.95±0.1 |

REFLOW SOLDERING PROFILE



ORDERING INFORMATION

| Part Number | | | | |
|-------------|------|---|-----|---|
| 3655 | 0402 | S | 1N0 | T |

Product type

| | |
|-------------|--------------------------|
| 3655 | Multilayer Chip Inductor |
|-------------|--------------------------|

Packaging size (LxWxT)

| | |
|-------------|-----------------------|
| 0402 | 1.0mm X 0.5mm X 0.5mm |
| 0603 | 1.6mm X 0.8mm X 0.8mm |

Inductance tolerance

| | |
|----------|--------|
| B | ±0.1nH |
| C | ±0.2nH |
| S | ±0.3nH |
| D | ±0.5nH |
| H | ±3% |
| J | ±5% |
| K | ±10% |

Packaging type

| | |
|----------|---|
| T | Taped & Reeled (0402 size - 10000 pieces/reel) (0603 size - 4000 pieces/reel) |
|----------|---|

Inductance value

| | |
|------------|-------|
| 1N0 | 1.0nH |
| 10N | 10nH |
| R10 | 100nH |
| R36 | 360nH |

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04/24 ED

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Largest Supplier of Electrical and Electronic Components

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