(TCAL)
Fixed Inductors

Direct Electronics Industry Co., Ltd.

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Product Introduction

Introduction (TCAL)

Features:
- TV, VCR
- Computer Devices
- Electronics products
- Communication equipment

Applications:
- Low Cost
- Coating epoxy resin that ensures the humidity resistance to be long life.

Token fixed inductors meet the needs of a variety of manufacturing methods. Token (TCAL) fixed inductor utilizes the latest winding technology with special core material, sturdy construction, outer layer of epoxy resin processing, high Q value and self-resonance frequency, wide inductance range, high reliability, and low price.

The (TCAL) series is ideal for consumer electronics such as digital set-top boxes (DVB), digital video disc players (DVD), video cassette recorders (VCR), television (TV), computers, audio equipment, mobile communications, telephone, and various general-purpose electronic applications.

Token highly efficient automated production processes offer a full range of high-quality inductors products suitable for automatic plug-in operation. The (TCAL) provides 0204,0307,0410, and 0510 size varieties of different forming, such as Normal & Short Form, F Forming, U Forming, Pana Forming, and bulk products to meet the needs of a variety of manufacturing methods.

Token (TCAL) through hole inductors are full line confirming with RoHS specifications, Pb-free standards. Provide a complete inductor size and full range inductance, and custom parts are available on request. Token will also produce devices outside these specifications to meet specific customer requirements, contact us with your specific needs. For more information, please link to Token official website “Through Hole Inductors”.

http://www.direct-token.com  rfq@direct-token.com  China Factory: +86 755 26055363  Taiwan Factory: +886 2 29810109
Normal Forming

Normal Form & Short Form (TCAL)

<table>
<thead>
<tr>
<th>Type</th>
<th>Φ A(max)</th>
<th>B(max)</th>
<th>C ± 3.0</th>
<th>Φ D ± 0.05</th>
<th>E ± 1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCALN0204</td>
<td>2.8</td>
<td>5.0</td>
<td>29.5</td>
<td>0.50</td>
<td>62.5</td>
</tr>
<tr>
<td>TCALN0204</td>
<td>2.8</td>
<td>5.0</td>
<td>16.0</td>
<td>0.50</td>
<td>36.5</td>
</tr>
<tr>
<td>TCALN0307</td>
<td>3.0</td>
<td>7.0</td>
<td>28.0</td>
<td>0.50</td>
<td>62.5</td>
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<td>0.50</td>
<td>36.5</td>
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<tr>
<td>TCALN0410</td>
<td>4.0</td>
<td>10.0</td>
<td>26.0</td>
<td>0.65</td>
<td>62.5</td>
</tr>
<tr>
<td>TCALN0410</td>
<td>4.0</td>
<td>10.0</td>
<td>14.0</td>
<td>0.65</td>
<td>36.5</td>
</tr>
<tr>
<td>TCALN0510</td>
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<td>0.65</td>
<td>62.5</td>
</tr>
<tr>
<td>TCALN0510</td>
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<td>10.0</td>
<td>14.0</td>
<td>0.65</td>
<td>36.5</td>
</tr>
</tbody>
</table>

Normal Form & Short Form (TCAL) Dimensions
**F Forming**

**F Forming (TCAL)**

<table>
<thead>
<tr>
<th>Sym.</th>
<th>TCALFB0204</th>
<th>TCALFB0307</th>
<th>TCALFB0410</th>
<th>TCALFB0510</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (max)</td>
<td>2.80</td>
<td>3.00</td>
<td>4.00</td>
<td>5.00</td>
</tr>
<tr>
<td>B (max)</td>
<td>5.00</td>
<td>7.00</td>
<td>10.00</td>
<td>10.00</td>
</tr>
<tr>
<td>C (max)</td>
<td>6.00</td>
<td>6.00</td>
<td>6.00</td>
<td>6.00</td>
</tr>
<tr>
<td>D (min)</td>
<td>3.60</td>
<td>3.60</td>
<td>4.00</td>
<td>4.00</td>
</tr>
<tr>
<td>W ± 0.05</td>
<td>0.50 Φ</td>
<td>0.50 Φ</td>
<td>0.65 Φ</td>
<td>0.65 Φ</td>
</tr>
</tbody>
</table>

![F Forming (TCAL) Dimensions](image-url)
### U Forming (TCAL)

<table>
<thead>
<tr>
<th>Sym.</th>
<th>TCALUB0204</th>
<th>TCALUB0307</th>
<th>TCALUB0410</th>
<th>TCALUB0510</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (max)</td>
<td>2.80</td>
<td>3.00</td>
<td>4.00</td>
<td>5.00</td>
</tr>
<tr>
<td>B (max)</td>
<td>5.00</td>
<td>7.00</td>
<td>10.00</td>
<td>10.00</td>
</tr>
<tr>
<td>C (min)</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
</tr>
<tr>
<td>F</td>
<td>6 ~ 15</td>
<td>10 ~ 20</td>
<td>12.5 ~ 20</td>
<td>12.5 ~ 20</td>
</tr>
<tr>
<td>W ± 0.05</td>
<td>0.50 Φ</td>
<td>0.50 Φ</td>
<td>0.65 Φ</td>
<td>0.65 Φ</td>
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**U Forming (TCAL) Dimensions**

![U Forming Diagram](image-url)
### Pana Forming

#### Pana Forming (TCAL 0307 Series)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D0</th>
<th>F</th>
<th>H</th>
<th>H0</th>
<th>H1</th>
<th>h</th>
<th>h1</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 (max)</td>
<td>7.00 (max)</td>
<td>3.00</td>
<td>+0.00</td>
<td>5.00</td>
<td>19.00</td>
<td>+1.00</td>
<td>16.00</td>
<td>+0.5</td>
<td>28.50</td>
</tr>
<tr>
<td>3.00</td>
<td>7.00</td>
<td>3.00</td>
<td>+0.80</td>
<td>-0.20</td>
<td>19.00</td>
<td>+1.00</td>
<td>16.00</td>
<td>+0.30</td>
<td>28.50</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>P</th>
<th>P0</th>
<th>P1</th>
<th>P2</th>
<th>T</th>
<th>W</th>
<th>W0</th>
<th>W1</th>
<th>W2</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.7±1.0</td>
<td>12.7±0.3</td>
<td>3.85±0.7</td>
<td>6.35±1.3</td>
<td>0.7±0.2</td>
<td>18.00</td>
<td>+1.00</td>
<td>13.00±1.0</td>
<td>9.00±0.75</td>
</tr>
</tbody>
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**Unit in mm**

**Pana Forming (TCAL) Dimensions**
Reel & Packing

Dimensions of Tape & Reel Axial Lead Type (TCAL)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>52.00 ± 1.50</td>
<td>E</td>
<td>0.00 ± 0.50</td>
<td>T</td>
<td>45.00 ± 0.50</td>
</tr>
<tr>
<td>A'</td>
<td>26.00 ± 1.50</td>
<td>F</td>
<td>1.00 (max)</td>
<td>W</td>
<td>76.00 ± 0.50</td>
</tr>
<tr>
<td>B</td>
<td>5.00 ± 0.50</td>
<td>G</td>
<td>1.00 (max)</td>
<td>W'</td>
<td>50.00 ± 0.50</td>
</tr>
<tr>
<td>C</td>
<td>6.00 ± 1.00</td>
<td>K</td>
<td>355.00 ± 0.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>26.00 ± 0.50</td>
<td>R</td>
<td>15.00 ± 0.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D'</td>
<td>13.00 ± 0.50</td>
<td>T</td>
<td>71.00 ± 0.50</td>
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Packing Unit for Reel Axial Lead Type (TCAL)

<table>
<thead>
<tr>
<th>Item</th>
<th>TCAL0204</th>
<th>TCAL0307</th>
<th>TCAL0410</th>
<th>TCAL0510</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q’ TY/ Reel</td>
<td>5,000 PCS</td>
<td>5,000 PCS</td>
<td>5,000 PCS</td>
<td>3,000 PCS</td>
</tr>
<tr>
<td>GW/Reel (Approx.)</td>
<td>1.4 Kgm</td>
<td>1.6 Kgm</td>
<td>2.0 Kgm</td>
<td>2.0 Kgm</td>
</tr>
<tr>
<td>Q’ TY/CTN.</td>
<td>25,000 PCS</td>
<td>25,000 PCS</td>
<td>25,000 PCS</td>
<td>15,000 PCS</td>
</tr>
<tr>
<td>NW/CTN. (Approx.)</td>
<td>7.0 Kgm</td>
<td>8.0 Kgm</td>
<td>10.0 Kgm</td>
<td>10.0 Kgm</td>
</tr>
<tr>
<td>GW/CTN. (Approx.)</td>
<td>8.0 Kgm</td>
<td>9.0 Kgm</td>
<td>11.0 Kgm</td>
<td>11.0 Kgm</td>
</tr>
<tr>
<td>Carton Size (mm)</td>
<td>397 × 397 × 479</td>
<td>397 × 397 × 479</td>
<td>397 × 397 × 479</td>
<td>397 × 397 × 479</td>
</tr>
</tbody>
</table>
### Box & Packing

#### Dimensions of Ammo Box Axial Lead Type (TCAL)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>74.00 ± 0.30</td>
<td>B</td>
<td>108.00 ± 0.30</td>
<td>C</td>
<td>260.00 ± 0.30</td>
</tr>
<tr>
<td>A'</td>
<td>48.00 ± 0.30</td>
<td>B'</td>
<td>105.00 ± 0.30</td>
<td>C'</td>
<td>255.00 ± 0.30</td>
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</tbody>
</table>

#### Packing Unit for Box Axial Lead Type (TCAL)

<table>
<thead>
<tr>
<th>Item</th>
<th>TCAL0204</th>
<th>TCAL0307</th>
<th>TCAL0410</th>
<th>TCAL0510</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q' TY / Ammo Box</td>
<td>3,000 PCS</td>
<td>3,000 PCS</td>
<td>2,000 PCS</td>
<td>1,500 PCS</td>
</tr>
<tr>
<td>GW / Box (Approx.)</td>
<td>0.8 KGM</td>
<td>0.9 KGM</td>
<td>1.0 KGM</td>
<td>0.7 KGM</td>
</tr>
<tr>
<td>Q' TY / CTN.</td>
<td>30,000 PCS</td>
<td>30,000 PCS</td>
<td>20,000 PCS</td>
<td>10,000 PCS</td>
</tr>
<tr>
<td>NW / CTN. (Approx.)</td>
<td>6.0 Kgm</td>
<td>7.0 Kgm</td>
<td>8.0 Kgm</td>
<td>5.0 Kgm</td>
</tr>
<tr>
<td>GW / CTN. (Approx.)</td>
<td>8.0 Kgm</td>
<td>9.0 Kgm</td>
<td>10.0 Kgm</td>
<td>7.0 Kgm</td>
</tr>
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#### Packing Unit for Bulk Axial Lead Type (TCAL)

<table>
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<tr>
<th>Item</th>
<th>TCAL0204</th>
<th>TCAL0307</th>
<th>TCAL0410</th>
<th>TCAL0510</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q' TY / Bag</td>
<td>1,000 PCS</td>
<td>1,000 PCS</td>
<td>1,000 PCS</td>
<td>500 PCS</td>
</tr>
<tr>
<td>GW / Bag (Approx.)</td>
<td>0.1 Kgm</td>
<td>0.15 Kgm</td>
<td>0.3 Kgm</td>
<td>0.3 Kgm</td>
</tr>
</tbody>
</table>
How to Select a fixed inductor

How to select a fixed inductor

Perfectly, inductors should have zero resistance and capacitance. This is not practically possible, as the conducting copper wires, used for through hole inductors, have small internal resistance.

Important criteria for the selection are:

- **Inductance Range (H):**
  The rated inductance range of the inductor. This is designated by ±10% of the inductance.

- **Quality Factor (Q):**
  The Q value of an inductor is a measure of the relative losses in an inductor. The Q is also known as the "quality factor" and is technically defined as the ratio of inductive reactance to effective resistance.

- **Self-Resonant Frequency (SRF):**
  The frequency at which the inductor's distributed capacitance resonates with the inductance. It is at this frequency that the inductance is equal to the capacitance and they cancel each other. The inductor will act purely resistive with a high impedance at the SRF point.

- **Permissible DC Current:**
  Measured in Ohms, it is the maximum DC current that the inductor should be exposed to.
## TCAL0204 Characteristics

### Characteristics (TCAL0204)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance(µH)</th>
<th>Q(min)</th>
<th>Freq.(MHz)</th>
<th>SRF(MHz)(min)</th>
<th>DCR(Ω)(max)</th>
<th>IDC(mA)(max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCAL**0204-R22M</td>
<td>0.22±20%</td>
<td>40</td>
<td>25.2</td>
<td>175</td>
<td>0.20</td>
<td>705</td>
</tr>
<tr>
<td>TCAL**0204-R27M</td>
<td>0.27±20%</td>
<td>40</td>
<td>25.2</td>
<td>160</td>
<td>0.22</td>
<td>670</td>
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<tr>
<td>TCAL**0204-R33M</td>
<td>0.33±20%</td>
<td>40</td>
<td>25.2</td>
<td>150</td>
<td>0.24</td>
<td>645</td>
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<tr>
<td>TCAL**0204-R39M</td>
<td>0.39±20%</td>
<td>50</td>
<td>25.2</td>
<td>150</td>
<td>0.27</td>
<td>605</td>
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<td>TCAL**0204-R47M</td>
<td>0.47±20%</td>
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<td>25.2</td>
<td>150</td>
<td>0.30</td>
<td>575</td>
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<td>TCAL**0204-R56M</td>
<td>0.56±20%</td>
<td>50</td>
<td>25.2</td>
<td>150</td>
<td>0.34</td>
<td>540</td>
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<td>TCAL**0204-R68M</td>
<td>0.68±20%</td>
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<td>25.2</td>
<td>150</td>
<td>0.38</td>
<td>510</td>
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<tr>
<td>TCAL**0204-R82M</td>
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<td>25.2</td>
<td>150</td>
<td>0.43</td>
<td>480</td>
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<td>TCAL**0204-1R0K</td>
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<td>50</td>
<td>7.96</td>
<td>110</td>
<td>0.52</td>
<td>435</td>
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<tr>
<td>TCAL**0204-1R2K</td>
<td>1.2±10%</td>
<td>50</td>
<td>7.96</td>
<td>80</td>
<td>0.57</td>
<td>415</td>
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<tr>
<td>TCAL**0204-1R5K</td>
<td>1.5±10%</td>
<td>50</td>
<td>7.96</td>
<td>66</td>
<td>0.60</td>
<td>405</td>
</tr>
<tr>
<td>TCAL**0204-2R2K</td>
<td>2.2±10%</td>
<td>50</td>
<td>7.96</td>
<td>60</td>
<td>0.65</td>
<td>390</td>
</tr>
<tr>
<td>TCAL**0204-2R7K</td>
<td>2.7±10%</td>
<td>50</td>
<td>7.96</td>
<td>54</td>
<td>0.73</td>
<td>370</td>
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<td>TCAL**0204-3R3K</td>
<td>3.3±10%</td>
<td>50</td>
<td>7.96</td>
<td>48</td>
<td>0.82</td>
<td>345</td>
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<td>TCAL**0204-3R9K</td>
<td>3.9±10%</td>
<td>50</td>
<td>7.96</td>
<td>44</td>
<td>0.90</td>
<td>330</td>
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<tr>
<td>TCAL**0204-4R7K</td>
<td>4.7±10%</td>
<td>50</td>
<td>7.96</td>
<td>38</td>
<td>1.00</td>
<td>315</td>
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<td>TCAL**0204-5R6K</td>
<td>5.6±10%</td>
<td>50</td>
<td>7.96</td>
<td>34</td>
<td>1.10</td>
<td>300</td>
</tr>
<tr>
<td>TCAL**0204-6R8K</td>
<td>6.8±10%</td>
<td>50</td>
<td>7.96</td>
<td>30</td>
<td>1.20</td>
<td>285</td>
</tr>
<tr>
<td>TCAL**0204-8R2K</td>
<td>8.2±10%</td>
<td>50</td>
<td>7.96</td>
<td>26</td>
<td>1.30</td>
<td>275</td>
</tr>
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<td>TCAL**0204-100K</td>
<td>10±10%</td>
<td>50</td>
<td>7.96</td>
<td>24</td>
<td>1.40</td>
<td>265</td>
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<tr>
<td>TCAL**0204-120K</td>
<td>12±10%</td>
<td>50</td>
<td>2.52</td>
<td>22</td>
<td>1.50</td>
<td>255</td>
</tr>
<tr>
<td>TCAL**0204-150K</td>
<td>15±10%</td>
<td>50</td>
<td>2.52</td>
<td>20</td>
<td>1.65</td>
<td>245</td>
</tr>
<tr>
<td>TCAL**0204-180K</td>
<td>18±10%</td>
<td>50</td>
<td>2.52</td>
<td>18</td>
<td>1.90</td>
<td>225</td>
</tr>
<tr>
<td>TCAL**0204-220K</td>
<td>22±10%</td>
<td>50</td>
<td>2.52</td>
<td>17</td>
<td>2.20</td>
<td>210</td>
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<td>TCAL**0204-270K</td>
<td>27±10%</td>
<td>50</td>
<td>2.52</td>
<td>16</td>
<td>2.50</td>
<td>200</td>
</tr>
<tr>
<td>TCAL**0204-330K</td>
<td>33±10%</td>
<td>50</td>
<td>2.52</td>
<td>14</td>
<td>3.80</td>
<td>160</td>
</tr>
<tr>
<td>TCAL**0204-390K</td>
<td>39±10%</td>
<td>50</td>
<td>2.52</td>
<td>13</td>
<td>4.20</td>
<td>150</td>
</tr>
<tr>
<td>TCAL**0204-470K</td>
<td>47±10%</td>
<td>50</td>
<td>2.52</td>
<td>12</td>
<td>4.60</td>
<td>145</td>
</tr>
<tr>
<td>TCAL**0204-560K</td>
<td>56±10%</td>
<td>40</td>
<td>2.52</td>
<td>11</td>
<td>5.10</td>
<td>140</td>
</tr>
<tr>
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## TCAL0307 Characteristics

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### TCAL0410 Characteristics

#### Characteristics (TCAL0410)

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## TCAL0510 Characteristics

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Order Codes

TCAL: +86 755 26055363
http://www.direct-token.com
rfq@direct-token.com

Taiwan Factory: +886 2 29810109

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General Information

Leading-Edge Technology
Token Electronics brand passive component specializes in standard and custom solutions offering the latest in state-of-the-art low profile high power density inductor components. Token provides cost-effective, comprehensive solutions that meet the evolving needs of technology-driven markets. In working closely with the industry leaders in chipset and core development, we remain at the forefront of innovation and new technology to deliver the optimal mix of packaging, high efficiency and unbeatable reliability. Our designs utilize high frequency, low core loss materials, new and custom core shapes in combination with innovative construction and packaging to provide designers with the highest performance parts available on the market.

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Selecting the correct inductor solution will not only save you time, but it will give you a competitive edge. At Token, we are committed to helping you find the most efficient alternative for your power design. Our inductor and power supply design experts can help you make that selection.

Please forward us:
- A brief description of your particular application’s requirements.
- Details of an existing solution that you’d like to replace, enhance or find an alternative.
- Inquiries for feasibility to tailor a power transformer or inductor to your specific application.

We can also help you with any additional technical information you might need relating to any of our products.

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