

### 7mm TYPE 7P

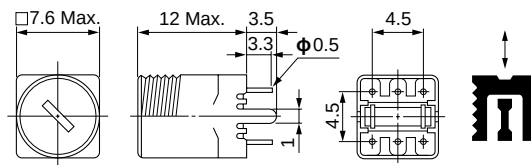
**Frequency Range:** 200kHz~2MHz

**Inductance Range:** 10μH~2.6mH

**Temperature Coefficient:** Inductor TC (L) 220 ± 220ppm/°C  
and TC (L) 750 ± 500ppm/°C

With Internal Capacitor TC (F) 0 ± 250ppm/°C

**Internal Capacitance Values:** 150~390pF<sup>(1)</sup>



(Unit: mm)

### Features

- Ideal for use as an AM IFT and in oscillator circuits.
- Unique design features a cup core adjustor threaded directly to the shield can, allowing use of larger cores. This results in the superior large signal characteristics normally associated with ordinary 10mm types.

### 特 長

- 7mm角の汎用タイプ
- IFTを初め多様な用途

## SELECTION GUIDE FOR STANDARD COILS

(1) Cross slot core (Philips type) also available upon request.

(1) 十字調整溝もご要求に応じて供給可能です。

### TYPE 7P

| 東光品番             | インダクタンス範囲             | 巻数比                          |      | Q      | 測定周波数            |
|------------------|-----------------------|------------------------------|------|--------|------------------|
| TOKO Part Number | Inductance Range (μH) | Turns Ratio: 1-3/1-2 1-3/4-6 |      | Q min. | Test Freq. (MHz) |
| 7BR-151208N2     | 150 ± 8%              | 65:2                         | 65:8 | 60     | 1.4              |
| 7BR-271208N2     | 270 ± 8%              | 43:1                         | 43:4 | 60     | 1.4              |
| 7BR-271308N2     | 270 ± 8%              | 86:3                         | 43:4 | 60     | 1.4              |
| 7BR-331208N2     | 330 ± 8%              | 95:2                         | 95:8 | 60     | 1.4              |
| 7BR-331308N2     | 330 ± 8%              | 95:3                         | 95:8 | 60     | 1.4              |
| 7BR-361208N2     | 360 ± 8%              | 50:1                         | 25:2 | 60     | 1.4              |
| 7BR-361308N2     | 360 ± 8%              | 100:3                        | 25:2 | 60     | 1.4              |
| A7BRS-11859Z     | 100 ± 6%              |                              |      | 50     | 2.52             |
| A7BRS-11860Z     | 120 ± 6%              |                              |      | 80     | 0.796            |
| A7BRS-11861Z     | 150 ± 6%              |                              |      | 80     | 0.796            |
| A7BRS-11862Z     | 180 ± 6%              |                              |      | 80     | 0.796            |
| A7BRS-11863Z     | 220 ± 6%              |                              |      | 80     | 0.796            |
| A7BRS-11864Z     | 270 ± 6%              |                              |      | 85     | 0.796            |
| A7BRS-11865Z     | 330 ± 6%              |                              |      | 90     | 0.796            |
| A7BRS-11866Z     | 390 ± 6%              |                              |      | 90     | 0.796            |
| A7BRS-11867Z     | 470 ± 6%              |                              |      | 90     | 0.796            |
| A7BRS-11868Z     | 560 ± 6%              |                              |      | 100    | 0.796            |
| A7BRS-11869Z     | 680 ± 6%              |                              |      | 100    | 0.796            |
| A7BRS-11870Z     | 820 ± 6%              |                              |      | 100    | 0.796            |
| A7BRS-11871Z     | 1000 ± 6%             |                              |      | 100    | 0.796            |

### TYPE 7P with Internal Capacitor

| 東光品番             | 容量値                     | 巻数比                          |        | Q         | 測定周波数            |
|------------------|-------------------------|------------------------------|--------|-----------|------------------|
| TOKO Part Number | Tuning Capacitance (pF) | Turns Ratio: 1-3/2-3 1-3/4-6 |        | Q min.    | Test Freq. (kHz) |
| 7LC-252142N0     | 180+5(ext)              | 146:37                       | 146:20 | 70 ± 20%  | 455              |
| 7LC-252203N0     | 180+5(ext)              | 146:37                       | 146:3  | 70 ± 20%  | 455              |
| 7LC-352142N0     | 180+5(ext)              | 146:52                       | 146:20 | 70 ± 20%  | 455              |
| 7LC-352203N0     | 180+5(ext)              | 146:52                       | 146:3  | 70 ± 20%  | 455              |
| 7LC-352353N0     | 180+5(ext)              | 146:52                       | 146:5  | 70 ± 20%  | 455              |
| 7LC-352503N0     | 180+5(ext)              | 146:52                       | 146:7  | 70 ± 20%  | 455              |
| 7LC-352713N0     | 180+5(ext)              | 146:52                       | 146:10 | 70 ± 20%  | 455              |
| 7LC-452503N0     | 180+5(ext)              | 146:66                       | 146:7  | 70 ± 20%  | 455              |
| 7MC-162503N0     | 180+5(ext)              | 146:23                       | 146:7  | 110 ± 20% | 455              |
| 7MC-202503N0     | 180+5(ext)              | 146:29                       | 146:7  | 110 ± 20% | 455              |
| 7MC-222162N0     | 180+5(ext)              | 146:33                       | 146:23 | 110 ± 20% | 455              |
| 7MC-312162N0     | 180+5(ext)              | 146:46                       | 146:23 | 110 ± 20% | 455              |
| 7MC-402353N0     | 180+5(ext)              | 146:58                       | 146:5  | 110 ± 20% | 455              |
| 7MC-402503N0     | 180+5(ext)              | 146:58                       | 146:7  | 110 ± 20% | 455              |
| 7MC-402563N0     | 180+5(ext)              | 146:58                       | 146:8  | 110 ± 20% | 455              |
| 7MC-452252N0     | 180+5(ext)              | 146:66                       | 146:37 | 110 ± 20% | 455              |
| 7MC-502503N0     | 180+5(ext)              | 146:73                       | 146:7  | 110 ± 20% | 455              |

### 7mm TYPE 7P High Frequency 7mm TYPE 7P High Frequency with Internal Capacitor<sup>(1)</sup>

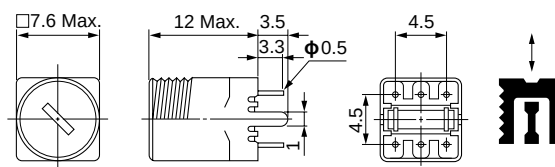
**Frequency Range:** 2~20MHz

**Inductance Range:** 1~82μH

**Temperature Coefficient:** Inductor TC (L) 220 ± 220ppm/°C

With Internal Capacitor TC (F) 0 ± 250ppm/°C

**Internal Capacitance Values:** 5~100pF<sup>(1)</sup>



(Unit: mm)

### Features

- Ideal for use as an FM IFT and in detector circuits.
- Unique design features a cup core adjustor threaded directly to the shield can, allowing use of larger cores. This results in the superior large signal characteristics normally associated with ordinary 10mm types.

### 特 長

- 7mm角の汎用タイプ
- IFTを初め多様な用途

## SELECTION GUIDE FOR STANDARD COILS

(1) Cross slot core (Philips type) also available upon request.

(1) 十字調整溝もご要求に応じて供給可能です。

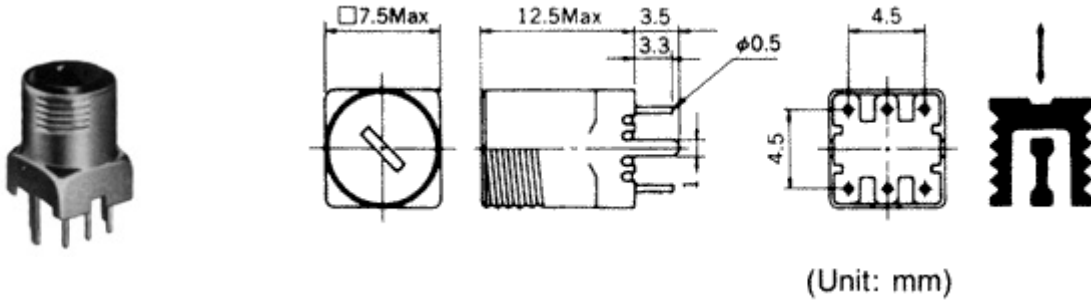
### TYPE 7P High Frequency

| 東光品番                   | インダクタンス範囲                   | Q         | 測定周波数                  |
|------------------------|-----------------------------|-----------|------------------------|
| TOKO<br>Part<br>Number | Inductance<br>Range<br>(μH) | Q<br>min. | Test<br>Freq.<br>(MHz) |
| A119ANS-18970Z         | 4.7 ± 6%                    | 105       | 7.96                   |
| A119ANS-18971Z         | 5.6 ± 6%                    | 105       | 7.96                   |
| A119ANS-18972Z         | 6.8 ± 6%                    | 110       | 7.96                   |
| A119ANS-18973Z         | 8.2 ± 6%                    | 110       | 7.96                   |
| A119ANS-18974Z         | 10.0 ± 6%                   | 110       | 7.96                   |
| A119ANS-18975Z         | 12.0 ± 6%                   | 80        | 2.52                   |
| A119ANS-18976Z         | 15.0 ± 6%                   | 85        | 2.52                   |
| A119ANS-18977Z         | 18.0 ± 6%                   | 90        | 2.52                   |
| A119ANS-18978Z         | 22.0 ± 6%                   | 90        | 2.52                   |
| A119ANS-18979Z         | 27.0 ± 6%                   | 90        | 2.52                   |
| A119ANS-18980Z         | 33.0 ± 6%                   | 90        | 2.52                   |
| A119ANS-18981Z         | 39.0 ± 6%                   | 90        | 2.52                   |
| A119ANS-18982Z         | 47.0 ± 6%                   | 85        | 2.52                   |
| A119ANS-18983Z         | 56.0 ± 6%                   | 85        | 2.52                   |
| A119ANS-18984Z         | 68.0 ± 6%                   | 85        | 2.52                   |
| A119ANS-18985Z         | 82.0 ± 6%                   | 85        | 2.52                   |

### TYPE 7P High Freq. with Internal Capacitor

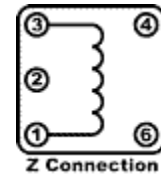
| 東光品番                   | 巻数比                                    | 容量値                           | Q         | 測定周波数                  |
|------------------------|----------------------------------------|-------------------------------|-----------|------------------------|
| TOKO<br>Part<br>Number | Turns Ratio:<br>1-3/2-3 1-3/4-6 Others | Tuning<br>Capacitance<br>(pF) | Q         | Test<br>Freq.<br>(MHz) |
| 119AC-470033N0         | 14:3                                   | 47+5(ext)                     | 100 ± 20% | 10.7                   |
| 119AC-470052N0         | 14:5                                   | 47+5(ext)                     | 110 ± 20% | 10.7                   |
| 119AC-470072N0         | 14:7                                   | 47+5(ext)                     | 110 ± 20% | 10.7                   |
| 119AC-470073N0         | 14:7                                   | 47+5(ext)                     | 110 ± 20% | 10.7                   |
| 119AC-470084N0         |                                        | 47+3(ext)                     | 90 ± 20%  | 10.7                   |
| 119AC-470112N0         | 14:11                                  | 47+5(ext)                     | 120 ± 20% | 10.7                   |
| 119AC-750111M0         |                                        | 75.5(ext)                     | 100 ± 20% | 10.7                   |
| 119AC-750112M0         |                                        | 75+5(ext)                     | 100 ± 20% | 10.7                   |
| 119FC-560061N0         | 12:6                                   | 56+0(ext)                     | 120 ± 20% | 10.7                   |
| 119FC-820051N0         | 10:5                                   | 82+0(ext)                     | 110 ± 20% | 10.7                   |
| 119LC-470033N0         | 14:3                                   | 47+5(ext)                     | 65 ± 20%  | 10.7                   |
| 119LC-470053N0         | 14:5                                   | 47+5(ext)                     | 70 ± 20%  | 10.7                   |
| 119LC-470073N0         | 14:7                                   | 47+5(ext)                     | 70 ± 20%  | 10.7                   |

## 7P HIGH FREQUENCY Series



### Technical Specification

Frequency Range : 2MHz - 20MHz  
 Inductance Range : 4.7uH - 330uH  
 Temperature Coefficient :  $220 \pm 220\text{ppm}/^{\circ}\text{C}$



### Features

- Ideal for use in FM circuits, as an IFT coil, and in oscillator circuits because of high Q and wide inductance range.

## TOKO 7P HIGH FREQUENCY VARIABLE INDUCTORS

| TOKO Ref       | Inductance | Tol. | Q<br>min | Test Freq<br>(MHz) | BEC Ref |
|----------------|------------|------|----------|--------------------|---------|
| A119ANS-T1029Z | 4.7uH      | ±10% | 80       | 7.96               | 371129  |
| A119ANS-T1030Z | 5.6uH      | ±10% | 80       | 7.96               | 371130  |
| A119ANS-T1031Z | 6.8uH      | ±10% | 80       | 7.96               | 371131  |
| A119ANS-T1032Z | 8.2uH      | ±10% | 80       | 7.96               | 371132  |
| A119ANS-T1033Z | 10.0uH     | ±10% | 80       | 2.52               | 371133  |
| A119ANS-T1034Z | 12.0uH     | ±10% | 80       | 2.52               | 371134  |
| A119ANS-T1035Z | 15.0uH     | ±10% | 80       | 2.52               | 371135  |
| A119ANS-T1036Z | 18.0uH     | ±10% | 80       | 2.52               | 371136  |
| A119ANS-T1037Z | 22.0uH     | ±10% | 80       | 2.52               | 371137  |
| A119ANS-T1038Z | 27.0uH     | ±10% | 80       | 2.52               | 371138  |
| A119ANS-T1039Z | 33.0uH     | ±10% | 80       | 2.52               | 371139  |
| A119ANS-T1040Z | 39.0uH     | ±10% | 80       | 2.52               | 371140  |
| A119ANS-T1041Z | 47.0uH     | ±10% | 80       | 2.52               | 371141  |
| A119ANS-T1042Z | 56.0uH     | ±10% | 80       | 2.52               | 371142  |
| A119ANS-T1043Z | 68.0uH     | ±10% | 80       | 2.52               | 371143  |
| A119ANS-T1044Z | 82.0uH     | ±10% | 80       | 2.52               | 371144  |
| A119ANS-18970Z | 4.7uH      | ±6%  | 105      | 7.96               | 372129  |

|                |        |      |     |      |        |
|----------------|--------|------|-----|------|--------|
| A119ANS-18971Z | 5.6uH  | ±6%  | 105 | 7.96 | 372130 |
| A119ANS-18972Z | 6.8uH  | ±6%  | 110 | 7.96 | 372131 |
| A119ANS-18973Z | 8.2uH  | ±6%  | 110 | 7.96 | 372132 |
| A119ANS-18974Z | 10.0uH | ±6%  | 110 | 7.96 | 372133 |
| A119ANS-18975Z | 12.0uH | ±6%  | 80  | 2.52 | 372134 |
| A119ANS-18976Z | 15.0uH | ±6%  | 85  | 2.52 | 372135 |
| A119ANS-18977Z | 18.0uH | ±6%  | 90  | 2.52 | 372136 |
| A119ANS-18978Z | 22.0uH | ±6%  | 90  | 2.52 | 372137 |
| A119ANS-18979Z | 27.0uH | ±6%  | 90  | 2.52 | 372138 |
| A119ANS-18980Z | 33.0uH | ±6%  | 90  | 2.52 | 372139 |
| A119ANS-18981Z | 39.0uH | ±6%  | 90  | 2.52 | 372140 |
| A119ANS-18982Z | 47.0uH | ±6%  | 85  | 2.52 | 372141 |
| A119ANS-18983Z | 56.0uH | ±6%  | 85  | 2.52 | 372142 |
| A119ANS-18984Z | 68.0uH | ±6%  | 85  | 2.52 | 372143 |
| A119ANS-18985Z | 82.0uH | ±6%  | 85  | 2.52 | 372144 |
| A7BRS-T1040Z   | 100uH  | ±10% | 80  | 796  | 371240 |
| A7BRS-T1041Z   | 120uH  | ±10% | 80  | 796  | 371241 |
| A7BRS-T1042Z   | 150uH  | ±10% | 80  | 796  | 371242 |
| A7BRS-T1043Z   | 180uH  | ±10% | 80  | 796  | 371243 |
| A7BRS-T1044Z   | 220uH  | ±10% | 80  | 796  | 371244 |
| A7BRS-T1045Z   | 270uH  | ±10% | 80  | 796  | 371245 |
| A7BRS-T1046Z   | 330uH  | ±10% | 80  | 796  | 371246 |