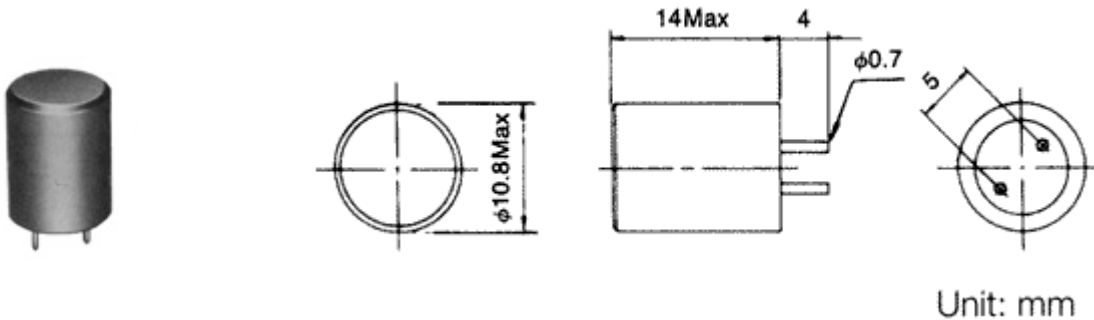


## 10RB Series



### Technical Specification

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Frequency Range :         | 10kHz - 200kHz                                   |
| Inductance Range :        | 1mH - 120mH                                      |
| Temperature Coefficient : | 1000ppm/°C max                                   |
| Tolerance :               | H = $\pm 3\%$<br>J = $\pm 5\%$<br>K = $\pm 10\%$ |

### Features

- A range of inductors efficient in a variety of filter circuits.
- All with a ferrite screening cover to prevent RF radiation.
- Ideal as a choke coil.
- Due to its high inductance and lower frequency, it is suitable in audio processing circuits for low, high and bandpass filtering requiring high dynamic range.
- High temperature epoxy resin used to hold base and drum securely.
- Pot core provides good electromagnetic shielding for low radiated noise, making it ideal for use in applications where components are in close proximity to one another.
- TOKO adjustment process is done 'on line' with automatic calibrating equipment to produce a consistent inductance value.
- Final setting is then permanently held in place by a special epoxy resin to effect an environmentally sealed device.

## **TOKO 10RB FIXED INDUCTORS**

| <b>TOKO Ref</b> | <b>Inductance</b> | <b>Qu<br/>min</b> | <b>DC<br/>Res<br/>(ohm)<br/>max</b> | <b>Rated<br/>DC (I)<br/>mA</b> | <b>SRF</b> |
|-----------------|-------------------|-------------------|-------------------------------------|--------------------------------|------------|
| 181LY-102(J)    | 1.0mH             | 70                | 3.4                                 | 55                             | 0.77       |
| 181LY-122(J)    | 1.2mH             | 70                | 3.7                                 | 52                             | 0.7        |
| 181LY-152(J)    | 1.5mH             | 70                | 4                                   | 47                             | 0.64       |
| 181LY-182(J)    | 1.8mH             | 70                | 4.5                                 | 44                             | 0.57       |
| 181LY-222(J)    | 2.2mH             | 70                | 5.2                                 | 41                             | 0.51       |
| 181LY-272(J)    | 2.7mH             | 70                | 5.8                                 | 37                             | 0.48       |
| 181LY-332(J)    | 3.3mH             | 100               | 6.1                                 | 33                             | 0.44       |
| 181LY-392(J)    | 3.9mH             | 100               | 7.2                                 | 30                             | 0.41       |
| 181LY-472(J)    | 4.7mH             | 100               | 7.5                                 | 28                             | 0.38       |
| 181LY-562(J)    | 5.6mH             | 100               | 8.4                                 | 25                             | 0.35       |
| 181LY-682(J)    | 6.8mH             | 100               | 9.7                                 | 23                             | 0.32       |
| 181LY-822(J)    | 8.2mH             | 100               | 10.4                                | 21                             | 0.28       |
| 181LY-103(J)    | 10mH              | 100               | 12.1                                | 18                             | 0.25       |
| 181LY-123(J)    | 12mH              | 100               | 13                                  | 17                             | 0.35       |
| 181LY-153(J)    | 15mH              | 100               | 15                                  | 15                             | 0.35       |
| 181LY-183(J)    | 18mH              | 100               | 17                                  | 13                             | 0.3        |
| 181LY-223(J)    | 22mH              | 100               | 19.5                                | 11                             | 0.3        |
| 181LY-273(J)    | 27mH              | 100               | 22                                  | 10                             | 0.25       |
| 181LY-333(J)    | 33mH              | 100               | 26                                  | 9                              | 0.25       |
| 181LY-363(J)    | 36mH              | 100               | 27                                  | 8                              | 0.2        |
| 181LY-393(J)    | 39mH              | 100               | 45                                  | 8                              | 0.12       |
| 181LY-473(J)    | 47mH              | 100               | 52                                  | 8                              | 0.12       |
| 181LY-563(J)    | 56mH              | 100               | 58                                  | 7                              | 0.12       |
| 181LY-683(J)    | 68mH              | 100               | 67                                  | 6                              | 0.09       |
| 181LY-823(J)    | 82mH              | 100               | 71                                  | 5                              | 0.09       |

|              |       |     |     |   |      |
|--------------|-------|-----|-----|---|------|
| 181LY-104(J) | 100mH | 100 | 182 | 5 | 0.09 |
| 181LY-124(J) | 120mH | 100 | 97  | 5 | 0.08 |