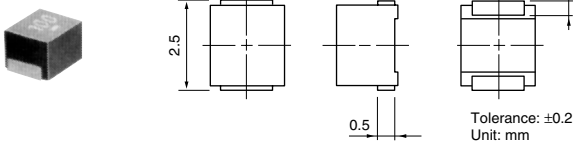
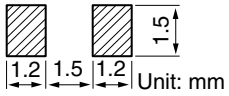
*The LLB2520 Series is a miniature wirewound ferrite core chip inductor in a 1008 footprint. It is especially designed to have low DC resistance and high current handling capability. Its use is ideal for the decoupling inductor in computers, consumer electronics and portable electronics equipment.*



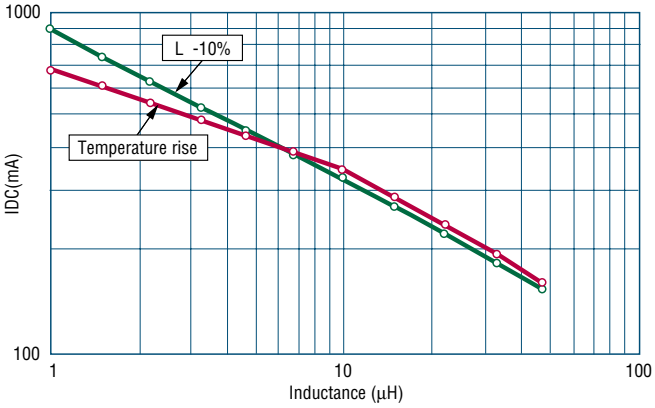

## Features

- Inductance Range: 1µH ~ 47µH
- EIA standard 1008 footprint (2.5mm x 2.0mm)
- Temperature Range: –40°C to +85°C
- Low DC resistance
- Proprietary wirewound structure with welded terminations offers high reliability
- Superior solderability and high heat-resistance for flow and reflow soldering
- Low profile: 1.7mm max (1.6mm typ.)
- S-parameter data available upon request
- Packaged on tape and reel in 2,000 piece quantity

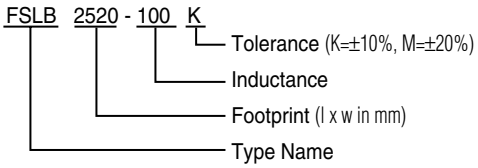
## Recommended Solder Pad Layout




## Rated DC Current




## Part Numbering




## STANDARD PARTS SELECTION GUIDE

### TYPE LLB2520

| TOKO Part Number | Lo (µH) | Tolerance | Test Frequency MHz | DC Resistance ( Ω ) max. | Rated DC * Current (mA) max. | Self Resonant Frequency (MHz) min. |
|---|---|---|---|---|---|---|
| FSLB2520-1R0M | 1.0 | ±20% | 1 | 0.30 | 480 | 130 |
| FSLB2520-1R5M | 1.5 | ±20% | 1 | 0.38 | 435 | 95 |
| FSLB2520-2R2M | 2.2 | ±20% | 1 | 0.44 | 390 | 75 |
| FSLB2520-3R3M | 3.3 | ±20% | 1 | 0.57 | 340 | 60 |
| FSLB2520-4R7M | 4.7 | ±20% | 1 | 0.68 | 310 | 50 |
| FSLB2520-6R8M | 6.8 | ±20% | 1 | 0.89 | 295 | 40 |
| FSLB2520-100K | 10 | ±10% | 1 | 1.1 | 220 | 33 |
| FSLB2520-150K | 15 | ±10% | 1 | 1.7 | 180 | 28 |
| FSLB2520-220K | 22 | ±10% | 1 | 2.5 | 160 | 23 |
| FSLB2520-330K | 33 | ±10% | 1 | 3.8 | 130 | 18 |
| FSLB2520-470K | 47 | ±10% | 1 | 5.4 | 100 | 15 |

* Rated DC current is that which the inductance decreases 10% by the excitation DC current or which the temperature rises 20ºC by excitation DC current, whichever is lower.

Note: Add **P2** to part number for tape and reel.