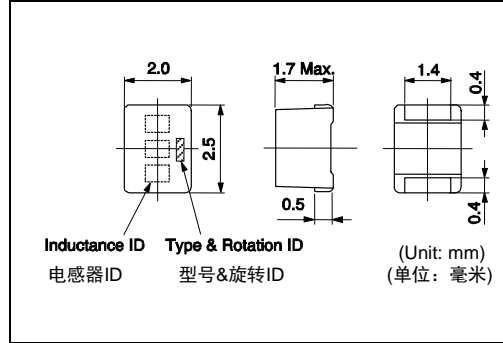
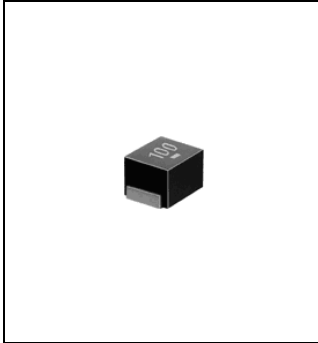


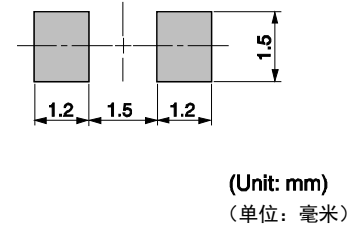
# LLB2520



(Previous name FSLB2520) (原名 FSLB2520)  
Inductance Range/电感值范围: 1~47 $\mu$ H (E-6)



### Recommended patterns 推荐焊盘尺寸



## FEATURES 特点

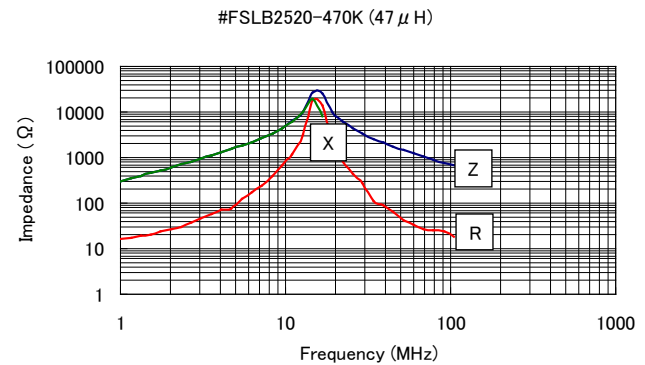
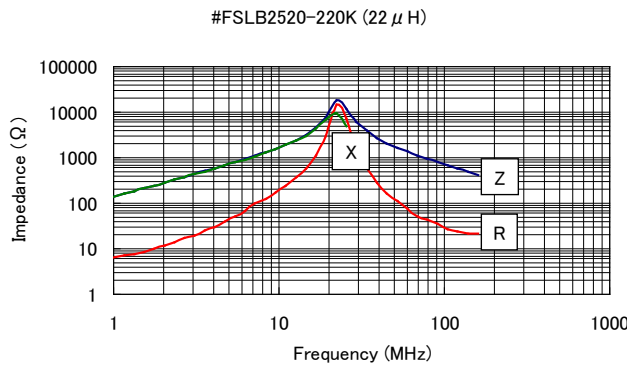
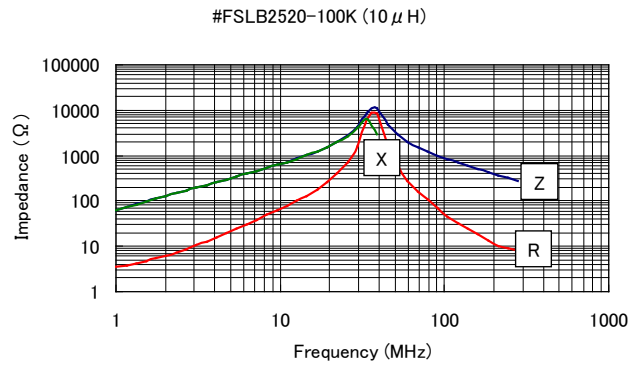
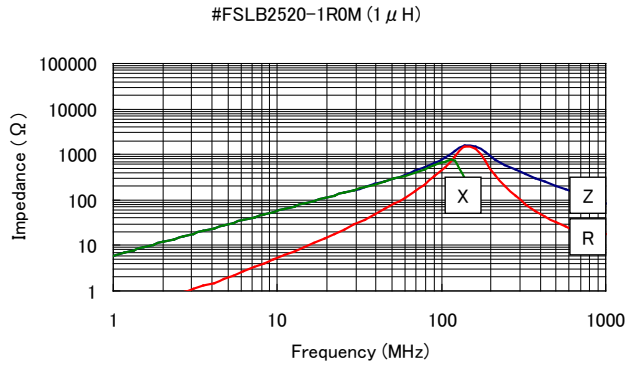
- Small size fixed inductor of the surface mounted type with a wire-wound structure characterized by a low DC resistance.
- It is the most suitable for the decoupling inductor for a small current.
- Low profile 1.7mm Max height. (1.6mm Typ.)
- Wide inductance range from 1 to 47 $\mu$ H.
- Low DC resistance, about .half of LLM2520 type with same package size.
- Superior solderability and high heat-resistance for reflow soldering.
- Excellent environmental and mechanical stability.
- 低直流电阻特性卷线结构小型表面贴装固定电感器。
- 最适合小电流的解耦电感器。
- 薄型最大1.7毫米高度。(典型的1.6毫米)
- 1~47 $\mu$ H的宽电感值范围。
- 低直流电阻, 约同样包装尺寸LLM2520型的一半。
- 对于回流焊接, 具有优良的可焊性和高热电阻。
- 出色的环境和机械特性。

## ELECTRICAL CHARACTERISTICS 电气特性

- |                                      |  |           |  |
|--------------------------------------|--|-----------|--|
| • Inductance Range                   | 1~47 $\mu$ H (E-6 Series)  | • 电感值范围   | 1~47 $\mu$ H (E-6系列)   |
| • Inductance Tolerance               | M; $\pm 20\%$ (1.0~6.8 $\mu$ H)<br>K; $\pm 10\%$ (10~47 $\mu$ H) | • 电感值公差   | M; $\pm 20\%$ (1.0~6.8 $\mu$ H)<br>K; $\pm 10\%$ (10~47 $\mu$ H) |
| • Inductance Temperature Coefficient | 750ppm/ $^{\circ}$ C Max.  | • 电感值温度系数 | 750ppm/ $^{\circ}$ C Max.  |
| • Operating Temperature              | -40 $^{\circ}$ C~+85 $^{\circ}$ C                                | • 使用温度范围  | -40 $^{\circ}$ C~+85 $^{\circ}$ C                                |
| • Storage Temperature                | -40 $^{\circ}$ C~+85 $^{\circ}$ C                                | • 储存温度范围  | -40 $^{\circ}$ C~+85 $^{\circ}$ C                                |
| (In case of taping used)             | (-40 $^{\circ}$ C~+60 $^{\circ}$ C)                              | (使用编带包装时) | (-40 $^{\circ}$ C~+60 $^{\circ}$ C)                              |

### F vs. IMPEDANCE CHARACTERISTICS F vs. 阻抗特性

Notes : R:Resistance (电阻) X:Reactance (电抗) Z:Impedance (阻抗)



### STANDARD PART NUMBERS 标准零件号码

**TYPE LLB2520 (Previous name FSLB2520, Quantity/reel; 2,000 PCS)/ LLB2520型(原名 FSLB2520, 每卷数量;2,000 PCS)**

零件号码	电感值 <sup>(1)</sup>		最大直流电阻 <sup>(2)</sup>	最大额定直流电流 <sup>(3)</sup>	最小自谐振频率
Part Number	Inductance <sup>(1)</sup>		DC Resistance <sup>(2)</sup>	Rated DC Current <sup>(3)</sup>	Self-resonant Frequency
	Lo ( $\mu$ H)	Tolerance	( $\Omega$ ) Max.	(mA) Max.	(MHz) Min.
#FSLB2520-1R0M=P2	1.0	$\pm 20\%$	0.30	480	130
#FSLB2520-1R5M=P2	1.5	$\pm 20\%$	0.38	435	95
#FSLB2520-2R2M=P2	2.2	$\pm 20\%$	0.44	390	75
#FSLB2520-3R3M=P2	3.3	$\pm 20\%$	0.57	340	60
#FSLB2520-4R7M=P2	4.7	$\pm 20\%$	0.68	310	50
#FSLB2520-6R8M=P2	6.8	$\pm 20\%$	0.89	295	40
#FSLB2520-100K=P2	10.0	$\pm 10\%$	1.10	220	33
#FSLB2520-150K=P2	15.0	$\pm 10\%$	1.70	180	28
#FSLB2520-220K=P2	22.0	$\pm 10\%$	2.50	160	23
#FSLB2520-330K=P2	33.0	$\pm 10\%$	3.80	130	18
#FSLB2520-470K=P2	47.0	$\pm 10\%$	5.40	100	15

#### ※Note 注意事项

Operating frequency bands on a set of each article number is equal to or less than measurement frequency.

- (1) Inductance is measured with a LCR meter 4291A(\*)  
Test Frequency at 1.0 MHz
- (2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.
- (3) Rated DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 20°C, whichever is smaller. (Reference ambient temperature 20°C)

- (1) 使用LCR仪表4291A(\*)测试电感值。测试频率为1.0MHz。
- (2) 使用数字万用表TR6871 (Advantest)或者功能相同的工具测试直流电阻。
- (3) 额定电流是以下两者中比较小的一个：电感值从最初值减少10%或者线圈温度升高20°C。(参考周围环境温度20°C)

\* Agilent 技术