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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	PIC
Core Size	8-Bit
Speed	32MHz
Connectivity	I ² C, LINbus, SPI
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT
Number of I/O	18
Program Memory Size	3.5KB (2K x 14)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	256 x 8
Voltage - Supply (Vcc/Vdd)	1.8V ~ 3.6V
Data Converters	A/D 8x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Through Hole
Package / Case	20-DIP (0.300", 7.62mm)
Supplier Device Package	20-PDIP
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic16lf1707-i-p

Wire-wound Chip Inductors (LB series)[LB]

LB2518T4R7MR



■ Features

- Item Summary
4.7uH \pm 20%, 0.235A, 1007/2518 (EIA/JIS)
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs

■ Products characteristics table

Inductance	4.7 uH \pm 20 %
Case Size (EIA/JIS)	1007/2518
Rated Current (max)	0.235 A
DC Resistance (max)	0.13 Ω
DC Resistance (typ)	0.1 Ω
LQ Measuring Frequency	7.96 MHz
Self Resonant Frequency (min)	46 MHz
Operating Temp. Range	-40 to +105 $^{\circ}$ C (Including-self-generated heat)
Temperature characteristic (Inductance change)	\pm 20 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	2.5 \pm 0.2 mm
Dimension W	1.8 \pm 0.2 mm
Dimension T	1.8 \pm 0.2 mm
Dimension e	0.5 \pm 0.2 mm

2017.05.03

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
 Before making final selection, please check product specification.

Wire-wound Chip Inductors (LB series)

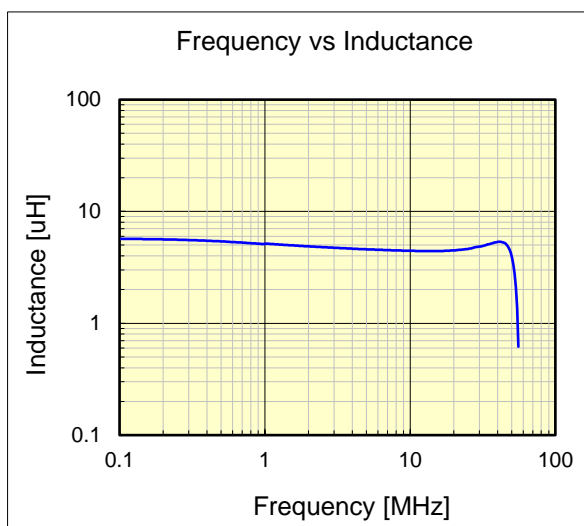
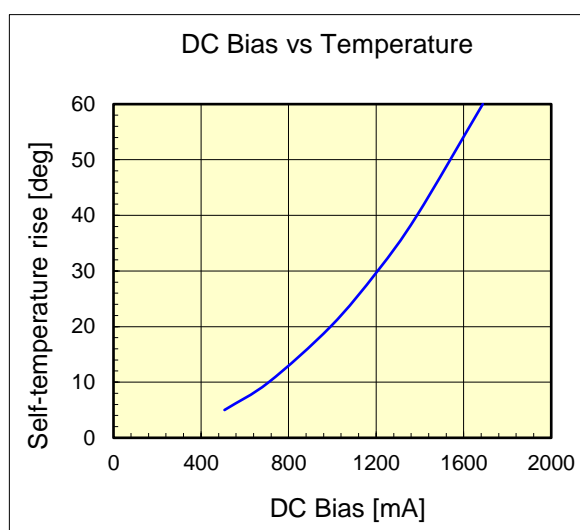
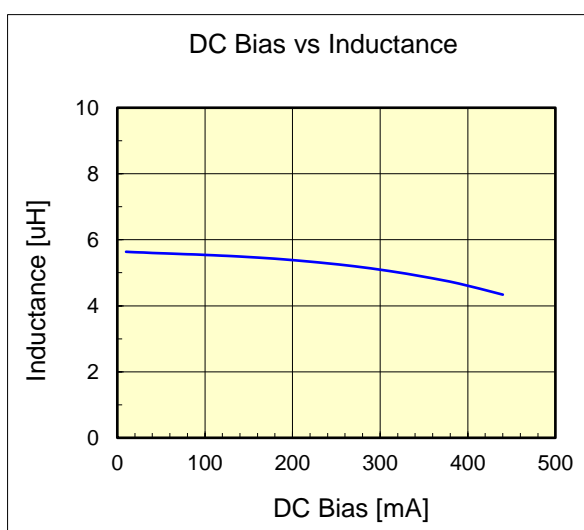
LB2518T4R7MR



Dimension	unit : mm	unit : inch
Length :	2.5 + / - 0.2	(0.098 + / - 0.008)
Width :	1.8 + / - 0.2	(0.071 + / - 0.008)
Height :	1.8 + / - 0.2	(0.071 + / - 0.008)

Inductance :	4.7	μ H	(test freq at 7.96MHz)
DC Resistance :	0.1	/	0.13 ohm (typ / max)
Rated Current :	235	mA	

Rated current typical : 10% reduction from initial L value.
and Temperature will rise by 20 deg C



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