

## SM Series



### ◆ MAJOR USES

- Noise filter for power source and automotive electrical unit

### ◆ FEATURES

- Low D.C. resistance due to the lead wire going through the core
- Use of a Fe-base amorphous core for excellent operational stability at high temperatures
- Automotive grade models
- Significantly improved safety and reliability because layer short circuits will not occur and because the leakage magnetic flux is extremely small

### ◆ GENERAL SPECIFICATION

Items	SM Series
Operating temperature range* <sup>1</sup>	-40 to 130°C
Storage temperature range	-40 to 130°C
Operating humidity range	20 to 95%RH
Storage humidity range	20 to 80%RH
Operating frequency range* <sup>2</sup>	20kHz to 500kHz
Insulating Type (Housing case)	Type F (155°C)
Incombustibility (Housing case)	UL94V-0

\*<sup>1</sup> Temperature on the coil surface including the temperature rise in installation. Never use the coil at a temperature exceeding the rated temperature range.

\*<sup>2</sup> Recommended range. When infra-acoustic frequency component is impressed, a beat sound sometimes occurs.

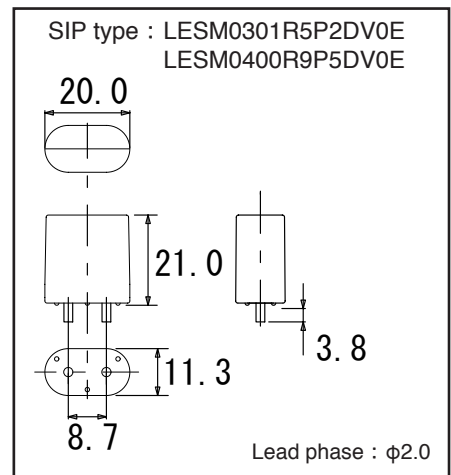
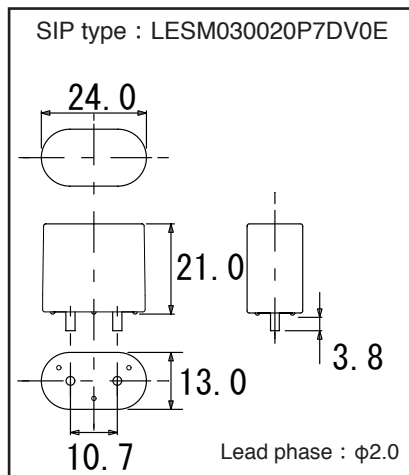
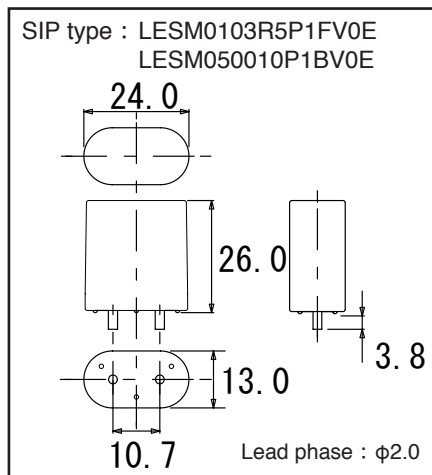
### ◆ COIL STANDARD SPECIFICATIONS

Coil Part No.	Rated Current A	Inductance (20kHz)		D.C.R. mΩ (max)	Outside Dimensions		
		0[A] μH	Rating μH		ℓ mm	w mm	h mm
LESM0103R5P1FV0E	10	3.7	3.5	0.40	24.0	13.0	26.0
LESM0301R5P2DV0E	30	2.3	1.3	0.36	20.0	11.3	21.0
LESM030020P7DV0E	30	2.2	1.9	0.40	24.0	13.0	21.0
LESM0400R9P5DV0E	40	1.5	0.9	0.36	20.0	11.3	21.0
LESM050010P1BV0E	50	2.4	1.2	0.40	24.0	13.0	26.0

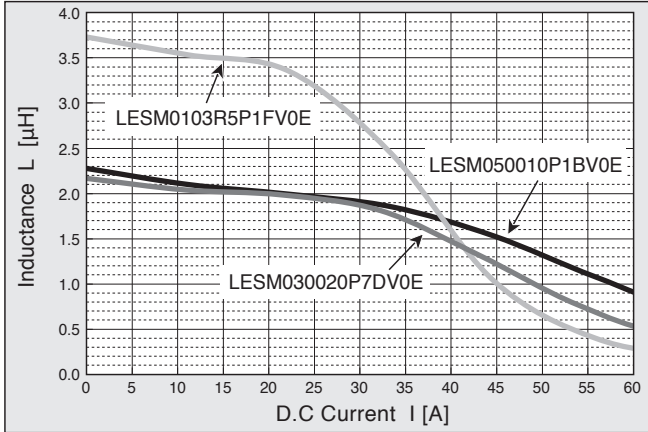
\* The inductance at current 0[A] indicates the reference value.

\* When using the product for automobiles, check with our representative about the usage conditions and other details before using the product. Note that the rated current refers to the current that flows under the rated inductance condition. Be sure to use the product below the maximum operating temperature.

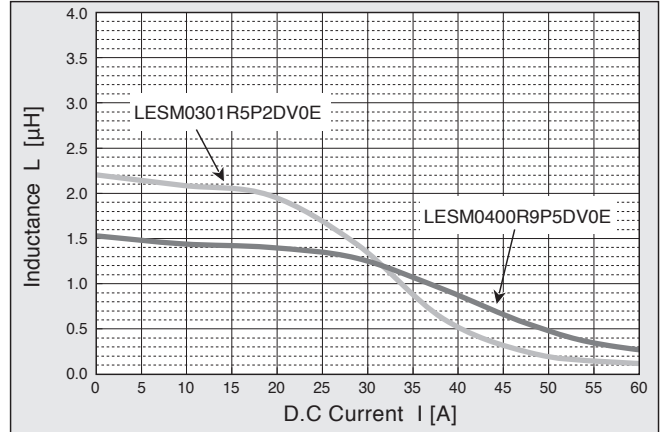
### ◆ STANDARD DIMENSION DIAGRAM (mm)



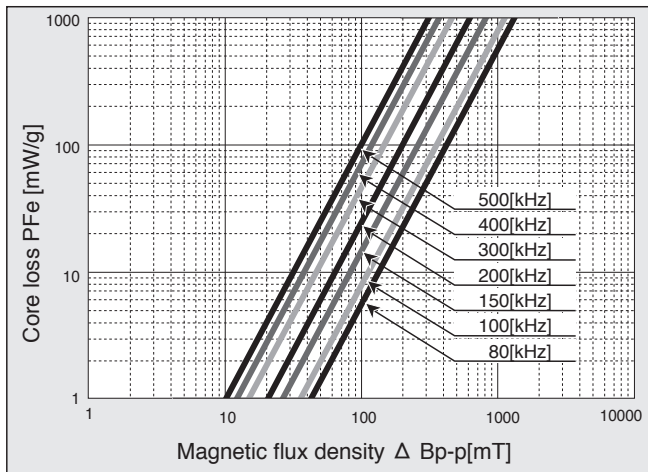
◆ D.C. BIAS CHARACTERISTICS (1)



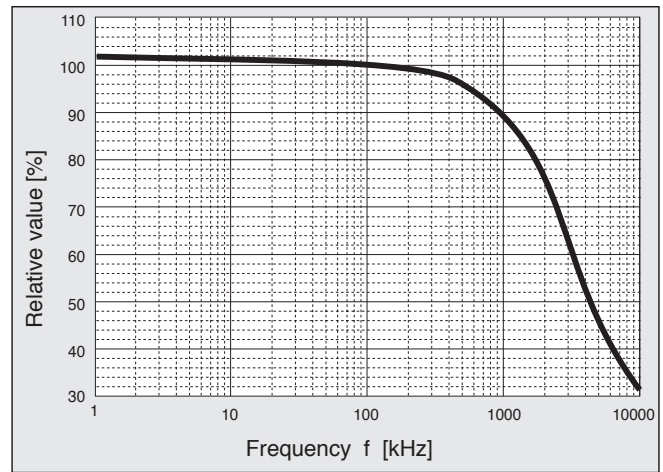
◆ D.C. BIAS CHARACTERISTICS (2)



◆ CORE LOSS CHARACTERISTICS



◆ FREQUENCY - INDUCTANCE CHARACTERISTICS



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