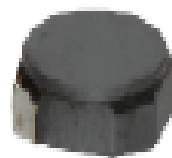


## 7E04SA



### ■ Features

- SMD magnetic shielded type of power inductor
- Suitable for power supply choke coil
- Available in 3 types of electronic characteristics
- Low DC Resistance

Magnetic structure :

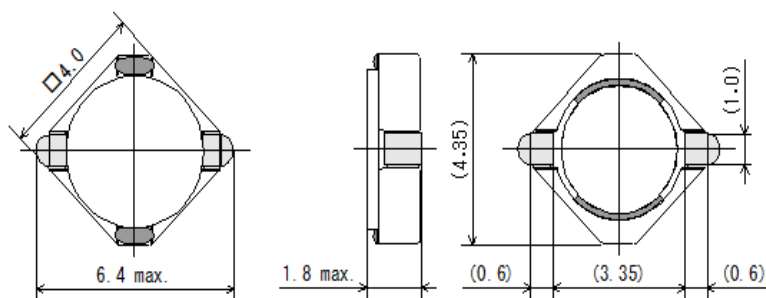


Weight : 0.09 g

### ■ Applications

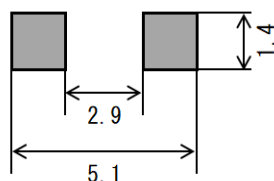
- Audio Visual/Camera, Portable Audio
- Computer & Peripheral Device/Smartphone & Tablet, Computer, Printer(MFP)
- Others/Power Supply, Transceivers, FA, Medical, Energy

### ■ Dimensions



(Unit : mm)

### ■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.  
<https://www.sagami-elec.co.jp>

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## ■ Specifications

| SAGAMI Part No. | Inductance<br>( $\mu$ H) | DCR<br>( $\Omega$ )<br>$\pm 30\%$ | DC Saturation<br>Allowable Current<br>(A) | Temperature Rise<br>Allowable Current<br>(A) |
|-----------------|--------------------------|-----------------------------------|-------------------------------------------|----------------------------------------------|
| 7E04SA-1R5N     | 1.5 $\pm 30\%$           | 0.0210                            | 1.40                                      | 2.90                                         |
| 7E04SA-1R8N     | 1.8 $\pm 30\%$           | 0.0260                            | 1.20                                      | 2.60                                         |
| 7E04SA-2R4N     | 2.4 $\pm 30\%$           | 0.0300                            | 1.00                                      | 2.30                                         |
| 7E04SA-3R6N     | 3.6 $\pm 30\%$           | 0.0460                            | 0.900                                     | 1.80                                         |
| 7E04SA-4R3N     | 4.3 $\pm 30\%$           | 0.0550                            | 0.800                                     | 1.70                                         |
| 7E04SA-5R6N     | 5.6 $\pm 30\%$           | 0.0720                            | 0.700                                     | 1.50                                         |
| 7E04SA-6R8N     | 6.8 $\pm 30\%$           | 0.0850                            | 0.640                                     | 1.40                                         |
| 7E04SA-7R5N     | 7.5 $\pm 30\%$           | 0.0940                            | 0.600                                     | 1.30                                         |
| 7E04SA-100M     | 10 $\pm 20\%$            | 0.120                             | 0.530                                     | 1.15                                         |
| 7E04SA-120M     | 12 $\pm 20\%$            | 0.150                             | 0.480                                     | 1.00                                         |
| 7E04SA-150M     | 15 $\pm 20\%$            | 0.200                             | 0.430                                     | 0.900                                        |
| 7E04SA-180M     | 18 $\pm 20\%$            | 0.220                             | 0.400                                     | 0.800                                        |
| 7E04SA-220M     | 22 $\pm 20\%$            | 0.270                             | 0.370                                     | 0.700                                        |
| 7E04SA-270M     | 27 $\pm 20\%$            | 0.320                             | 0.320                                     | 0.650                                        |
| 7E04SA-330M     | 33 $\pm 20\%$            | 0.410                             | 0.290                                     | 0.550                                        |
| 7E04SA-390M     | 39 $\pm 20\%$            | 0.470                             | 0.260                                     | 0.500                                        |

Inductance Measuring Condition: 100kHz, 1V(<10 $\mu$ H), 1kHz, 1V( $\geq 10\mu$ H)

DC saturation allowable current: The current value which inductance decrease within 35% from the initial value

Temperature rise allowable current: The rise in temperature of core surface is 25°C



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