

New Products

Fixed Inductor for Digital Amp. (Class-D)

DBE1316HH (2in1 type)

■ Features

- Inductor for LPF of Digital Amplifier (Class-D)
- Magnetically shielded type, High current
- Operating Temperature Range: -40~+125°C (include self-heating)
- **AEC-Q200 compliance**
- RoHS compliance

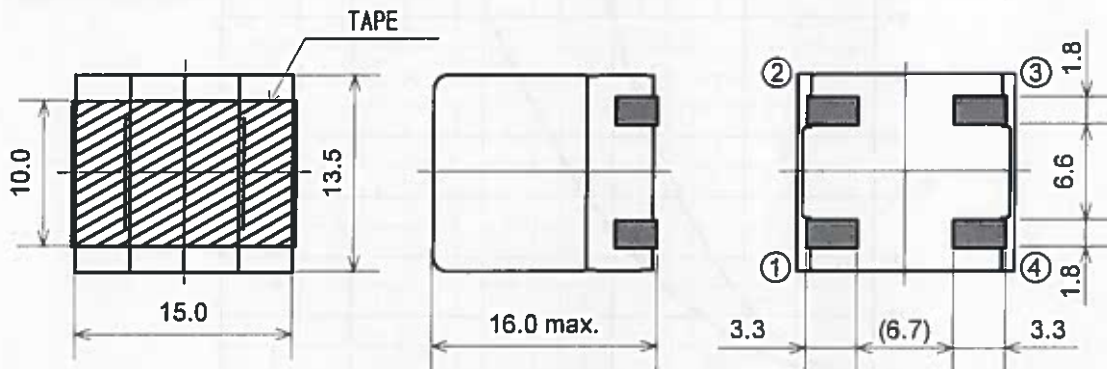


Weight : 11.0g

■ Application

- For home audio, home theater, car audio, and so on

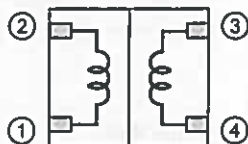
■ Dimensions



(Unit : mm)

■ Connection

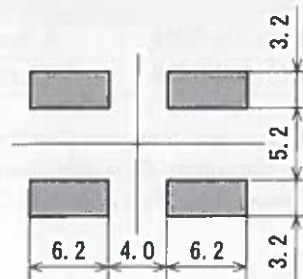
(Bottom view)



■ Magnetic structure



■ Recommended Land Pattern



(Unit : mm)

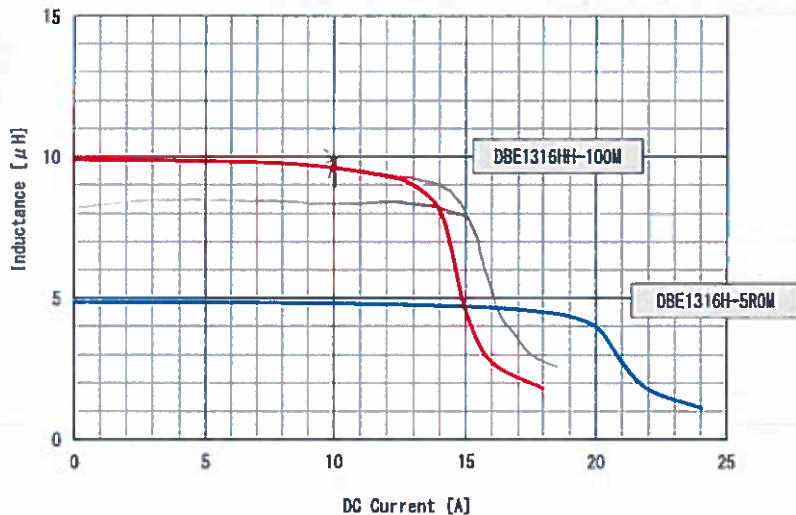


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<http://www.sagami-elec.co.jp>

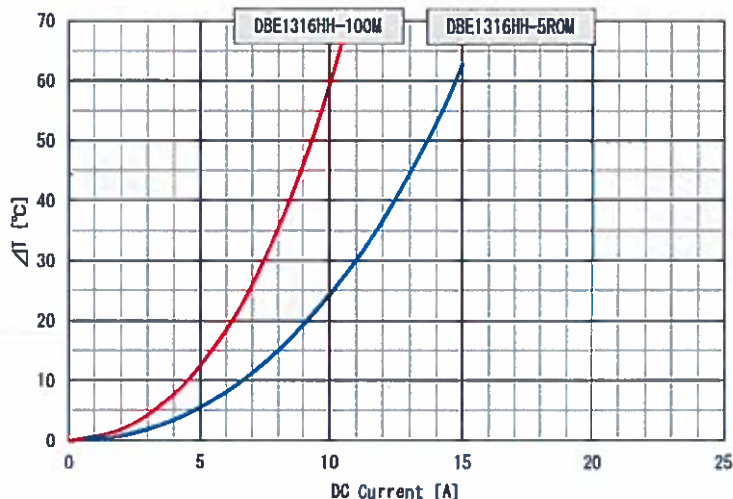
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Fixed Inductor for Digital Amp. (Class-D)

■ Characteristics of DC Saturation Current



■ Characteristics of Temperature rise



■ Specifications

| Part No. | Inductance (μH) | DCR Resistance (mΩ) max. | DC saturation allowable current (A) | Temperature rise allowable current (A) |
|----------------|-----------------|--------------------------|-------------------------------------|--|
| DBE1316HH-5R0M | 5.0±20% | 5.2 | 16.3 | 9.1 |
| DBE1316HH-100M | 10±20% | 10.9 | 11.1 | 6.2 |

- Inductance Measuring Condition : 100kHz, 1V
- DC Saturation Allowable Current : value of inductance decrease within 25%.
- Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.



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