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Development of high-quality heat resistant inductor & DC/DC transformer

SUMIDA CORPORATION (CEO: Shigeyuki Yawata, with the headquarters located at Chuo ward in Tokyo) have developed a high-quality inductor and a DC/DC transformer for automobiles, which are based on AEC-Q200 reliability tests and can withstand temperature up to 180°C. Demand for transformers and inductors withstanding high temperature is expected to increase with hybrid and electric vehicles becoming more and more popular in the near future. Sumida thinks that we need to cope with the demand for high-quality power inductors especially being used inside engine room that can withstand vibrations, shocks and high temperature. Sumida has been developing a series of ***/A type inductors that can resist 125 °C atmosphere and 30 °C self-generating heat and has just completed development of ***/AA type inductor that can resist 150°C atmosphere which is 25°C higher than before. The mass-production of ***/AA type inductor is expected to start at the end of 2010.

Type:	CDRH10D48/AA
Outer dimensions:	10.0mm x10.0mm xH4.8mm (Typ.)
Main qualities:	
Inductance	10uH ~ 1.0mH
DCR	37mΩ ~ 4.8 Ω
Rated current	0.20A ~ 2.55A(at 150°C)

inductor



Type : CEEH1612

Outer dimensions: 17.8mm x 24.1mm x
H14.0mm(Max.)

Main qualities:

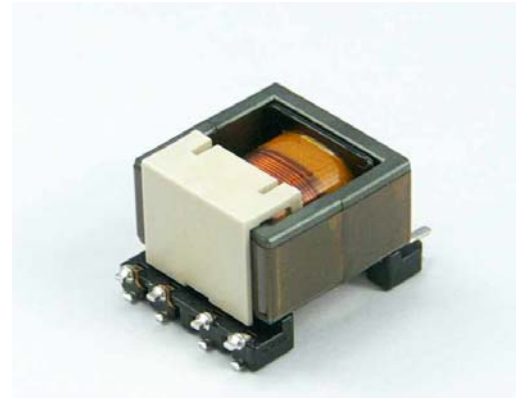
Withstand Voltage AC1500Vrms 以上

Vibration test 10G
condition

Shock test 100G 以上
condition

Maximum 10W (at 200KHz)
operating power

transformer



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