

SMD Power Inductor

Fixed Inductor for Surface Mounting

PQI2614-4R7K

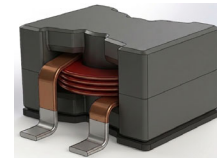
Construction

- Ferrite Core



Features

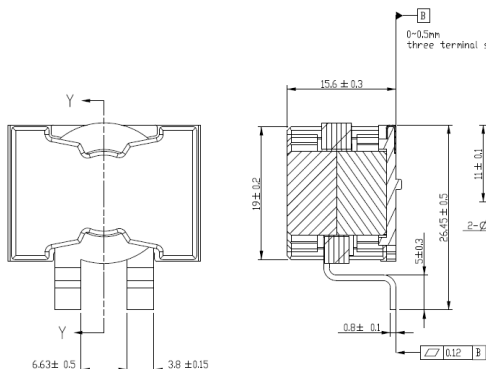
- Qualified to AEC-Q200
- Operating temperature -50 ~ +125°C (Including self temperature)
- Low DCR and High Current Capacity
- Efficient Energy Storage (High-Speed Switching)
- Excellent EMI Suppression



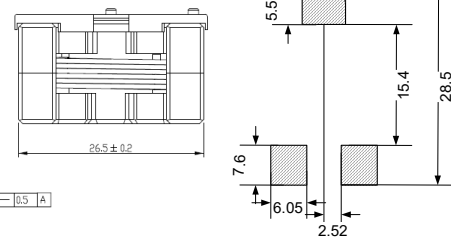
Applications

- Automotive
- High-Density SMPS for Data Centers
- Compact DC-DC Converters & On-Board Chargers (OBC) for Electric Vehicles
- Power Sections of High-Performance Industrial Controllers

Dimensions (Unit:mm)



Recommended Land Pattern (Unit:mm)



Electrical Characteristics

Ordering code	Inductance range (uH)	DCR (mΩ,TYP)	Isat*1 (A,TYP)	Isat*2 (A,TYP)	Isat*3 (48A,MIN)	Irms*4 (A,TYP)	Marking
PQI2614-4R7K	4.70±15%	2.00	48.0	50.1	80%LOA	30.0	PQI2614-4R7K

✱ Can be tailored to your specifications

✖Test Equipment

*Inductance : MICROTEST 6632 (100kHz, 1.0V)

*DCR Meter : ABM3245 (20mΩ~2MΩ)

*Bias Current : MICROTEST 6632 + 6240

*Notes

*Isat*1 : DC current at which the inductance drops approximate 20%

*Isat*2 : DC current at which the inductance drops approximate 30%

*Isat*3 : Preserved 80% from the initial L value.

*I_{rms}*4 : DC current that will cause an approximate ΔT of 40 °C

*Specifications subject to change without notice. Please check our website for latest information.

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