

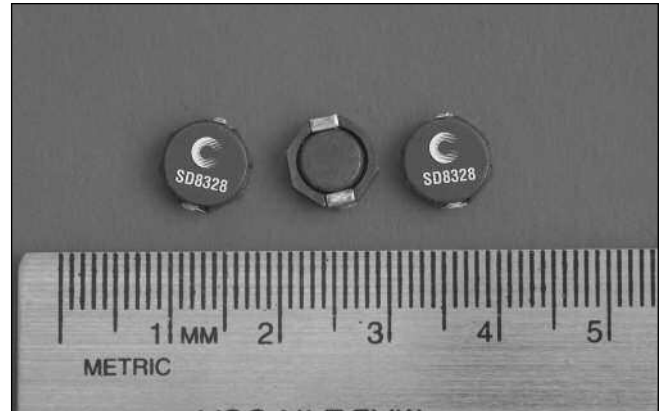


**THE DATASHEET OF
SD8328-150-R**



Description

- 125°C maximum temperature operation
- Low profile surface mount inductor
- 8.3mm x 9.5mm x 3.0mm shielded drum core
- Ferrite core material
- Inductance range from 2.7µH to 100µH
- Current range from 6.6 Amperes to 0.8 Amperes
- Frequency range up to 1MHz



Applications

- Buck or Boost inductor
- Noise filtering output filter chokes
- Notebook power/display
- LCD Monitors/Displays/Televisions
- Battery chargers, LCD bias supplies
- Battery and Industrial power systems
- Computer, DVD players
- Portable power devices, DC-DC converters

Environmental Data

- Storage temperature range: -40°C to +125°C
- Operating temperature range: -40°C to +125°C (range is application specific)
- Solder reflow temperature: +260°C max. for 10 seconds maximum

Packaging

- Supplied in tape and reel packaging, 1280 per reel

| Part Number | Rated Inductance (µH) | OCL (1) µH±30% | Irms(2) Amperes | Isat (3) Amperes | DCR (Ω) mΩ @20°C (Typical) | DCR (Ω) mΩ @20°C (Maximum) | K-factor (4) |
|--------------|-----------------------|----------------|-----------------|------------------|----------------------------|----------------------------|--------------|
| SD8328-2R5-R | 2.5 | 2.7 | 6.6 | 4.5 | 12 | 15.6 | 43 |
| SD8328-3R3-R | 3.3 | 3.4 | 6.1 | 4.0 | 14 | 18.0 | 33 |
| SD8328-4R7-R | 4.7 | 5.0 | 4.5 | 3.6 | 19 | 24.7 | 23 |
| SD8328-7R3-R | 7.3 | 7.6 | 3.4 | 2.9 | 30 | 39 | 15 |
| SD8328-100-R | 10 | 9.1 | 3.3 | 2.6 | 36 | 45 | 11 |
| SD8328-150-R | 15 | 14.5 | 2.35 | 2.0 | 53 | 69 | 7.2 |
| SD8328-220-R | 22 | 21.1 | 1.85 | 1.7 | 76 | 99 | 4.9 |
| SD8328-330-R | 33 | 31.9 | 1.45 | 1.4 | 120 | 156 | 3.3 |
| SD8328-470-R | 47 | 44.9 | 1.30 | 1.2 | 150 | 194 | 2.3 |
| SD8328-680-R | 68 | 64.2 | 0.98 | 1.0 | 220 | 286 | 1.6 |
| SD8328-101-R | 100 | 97.0 | 0.80 | 0.8 | 330 | 430 | 1.1 |

(1) Open Circuit Inductance Test Parameters: 100kHz, 0.1V, 0.0Adc.

(2) Iirms: DC current for an approximate ΔT of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application.

(3) Isat Amperes peak for approximately 35% rolloff (@25°C)

(4) K-factor: Used to determine B p-p for core loss (see graph).

B p-p = K*L*ΔI, B p-p(mT), K: (K factor from table), L: (Inductance in µH), ΔI (Peak to peak ripple current in Amperes).

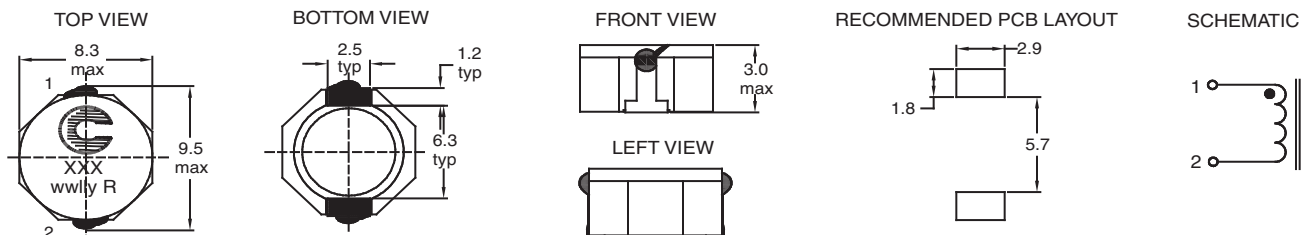
(5) Part Number Definition: SD8328-xxx-R

SD8328 = Product code and size; -xxx = Inductance value in µH;

R = decimal point; If no R is present, third character = # of zeros.

-R suffix = RoHS compliant

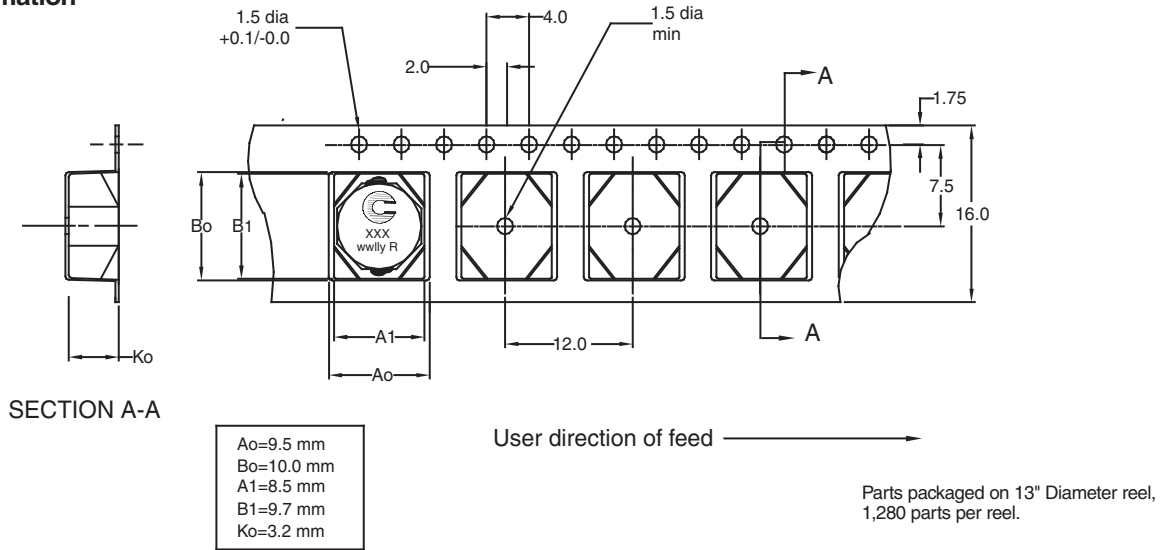
Mechanical Diagrams



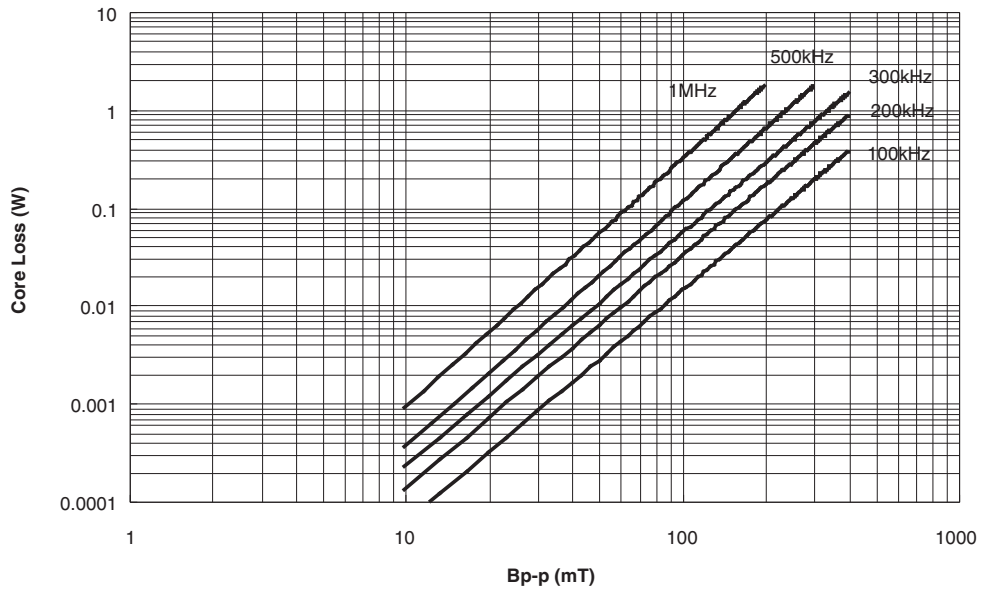
Dimensions are in millimeters.

xxx = Inductance value in µH. R = decimal point. If no R is present third character = # of zeros. wwllly = Date code, R = Revision level.

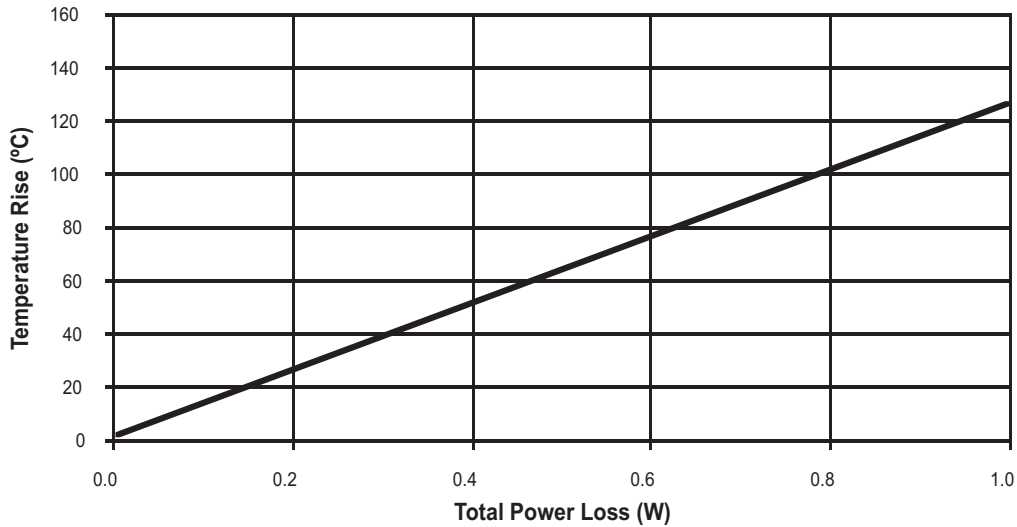
Packaging Information



Core Loss

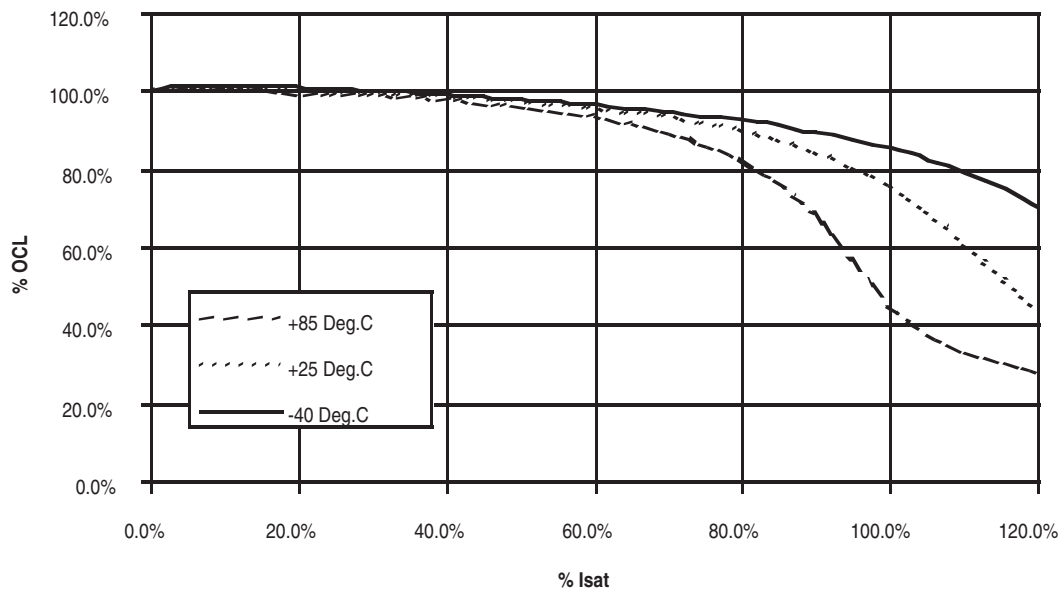


Temperature Rise vs. Loss



Inductance Characteristics

OCL Vs. Isat



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