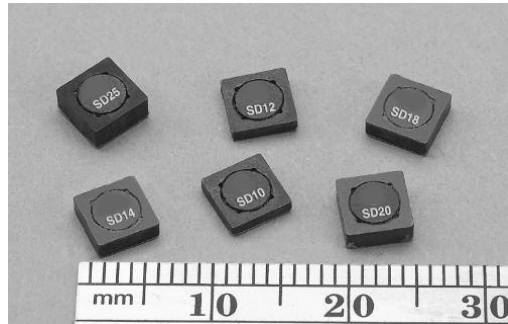


SD

Low profile metalized shielded drum core power inductors



Product features

- Six sizes of shielded drum core inductors with low profiles (as low as 1.0mm) and high power density
- Inductance range from .47 uH to 1000 uH
- Current range from 0.88 A to 6.0 A
- Ferrite shielded, low EMI
- Ferrite core material

Applications

- Digital cameras
- Media players
- Mobile phones
- Hand held equipment
- PCMCIA cards
- GPS systems

Environmental data

- Storage temperature range (component): -40 °C to +125 °C
- Operating temperature range: -40 °C to +125 °C (ambient plus self-temperature rise)
- Solder reflow temperature: J-STD-020 (latest revision) compliant



Product specifications

| Part Number | Rated Inductance (µH) | OCL (1) +/-20% (µH) | Part Marking | I _{rms} (2) (A) | I _{sat} (3) (A) | DCR (4) (Ω) Typ. | Volt u-sec Typ. |
|-------------|-----------------------|---------------------|--------------|--------------------------|--------------------------|------------------|-----------------|
| SD10-R47-R | 0.470 | 0.453 | A | 2.59 | 3.54 | 0.0249 | 2.1 |
| SD10-1R0-R | 1.00 | 1.119 | B | 1.93 | 2.25 | 0.0448 | 3.3 |
| SD10-1R5-R | 1.50 | 1.563 | C | 1.60 | 1.91 | 0.0653 | 3.9 |
| SD10-2R2-R | 2.20 | 2.081 | D | 1.35 | 1.65 | 0.0912 | 4.5 |
| SD10-3R3-R | 3.30 | 3.339 | E | 1.24 | 1.31 | 0.1078 | 5.7 |
| SD10-4R7-R | 4.70 | 4.893 | F | 1.04 | 1.08 | 0.1535 | 6.9 |
| SD10-6R2-R | 6.20 | 6.743 | G | 0.94 | 0.92 | 0.218 | 8.1 |
| SD10-8R2-R | 8.20 | 8.889 | H | 0.800 | 0.800 | 0.2607 | 9.3 |
| SD10-100-R | 10.0 | 10.07 | J | 0.760 | 0.752 | 0.336 | 9.9 |
| SD10-150-R | 15.0 | 15.55 | K | 0.613 | 0.605 | 0.4429 | 12.3 |
| SD10-220-R | 22.0 | 22.21 | L | 0.498 | 0.506 | 0.6718 | 14.7 |
| SD10-330-R | 33.0 | 32.20 | M | 0.412 | 0.420 | 0.9807 | 17.7 |
| SD10-470-R | 47.0 | 46.63 | N | 0.337 | 0.349 | 1.47 | 21.3 |
| SD10-680-R | 68.0 | 70.01 | O | 0.301 | 0.285 | 1.84 | 26.1 |
| SD10-820-R | 82.0 | 83.48 | P | 0.258 | 0.261 | 2.50 | 28.5 |
| SD10-101-R | 100 | 102.0 | Q | 0.225 | 0.236 | 3.29 | 31.5 |
| SD10-151-R | 150 | 149.2 | R | 0.200 | 0.195 | 4.15 | 38.1 |
| SD10-221-R | 220 | 222.2 | S | 0.161 | 0.160 | 6.41 | 46.5 |
| SD10-331-R | 330 | 330.4 | T | 0.130 | 0.131 | 9.83 | 56.7 |
| SD10-471-R | 470 | 468.3 | U | 0.117 | 0.110 | 12.10 | 67.5 |
| SD12-R47-R | 0.470 | 0.490 | A | 3.19 | 3.86 | 0.0246 | 2.84 |
| SD12-1R2-R | 1.20 | 1.21 | B | 2.62 | 2.45 | 0.0366 | 4.47 |
| SD12-1R5-R | 1.50 | 1.69 | C | 2.19 | 2.08 | 0.0521 | 5.28 |
| SD12-2R2-R | 2.20 | 2.25 | D | 1.83 | 1.80 | 0.0747 | 6.09 |
| SD12-3R3-R | 3.30 | 3.61 | E | 1.55 | 1.42 | 0.1043 | 7.71 |
| SD12-4R7-R | 4.70 | 4.41 | F | 1.46 | 1.29 | 0.1177 | 8.53 |
| SD12-6R2-R | 6.20 | 6.25 | G | 1.21 | 1.08 | 0.1699 | 10.15 |
| SD12-8R2-R | 8.20 | 8.41 | H | 1.02 | 0.931 | 0.2399 | 11.77 |
| SD12-100-R | 10.0 | 10.89 | J | 0.938 | 0.818 | 0.2844 | 13.40 |
| SD12-150-R | 15.0 | 15.21 | K | 0.782 | 0.692 | 0.4089 | 15.83 |
| SD12-220-R | 22.0 | 22.09 | L | 0.628 | 0.574 | 0.6338 | 19.08 |
| SD12-330-R | 33.0 | 32.49 | M | 0.519 | 0.474 | 0.9289 | 23.14 |
| SD12-470-R | 47.0 | 47.61 | N | 0.428 | 0.391 | 1.37 | 28.01 |
| SD12-680-R | 68.0 | 68.89 | O | 0.341 | 0.325 | 2.16 | 33.70 |
| SD12-820-R | 82.0 | 82.81 | P | 0.326 | 0.297 | 2.36 | 36.95 |
| SD12-101-R | 100 | 98.0 | Q | 0.308 | 0.273 | 2.64 | 40.19 |
| SD12-151-R | 150 | 151.3 | R | 0.251 | 0.220 | 3.96 | 49.94 |
| SD12-221-R | 220 | 222.0 | S | 0.229 | 0.181 | 4.76 | 60.49 |
| SD12-331-R | 330 | 334.9 | T | 0.186 | 0.148 | 7.25 | 74.30 |
| SD12-471-R | 470 | 462.3 | U | 0.167 | 0.126 | 8.95 | 87.29 |
| SD12-681-R | 680 | 670.8 | V | 0.149 | 0.104 | 11.30 | 105 |
| SD12-821-R | 820 | 800.9 | W | 0.129 | 0.095 | 14.93 | 115 |
| SD12-102-R | 1000 | 992.3 | X | 0.121 | 0.086 | 17.20 | 128 |

(1) Open Circuit Inductance Test Parameters: 100 kHz, 0.25 V_{rms}, 0.0 Adc.

(2) RMS current for an approximate ΔT of 40 °C without core loss. It is recommended that the temperature of the part not exceed +125 °C.

(3) SD10,12,18,25 Peak current for approximate 30% rolloff at +20 °C.
SD14 Peak current for approximate 20% roll off at +20 °C.

(4) DCR limits @ +20 °C.

(5) Applied Volt-Time product (V-us) across the inductor at 100 kHz necessary to generate a core loss equal to 10% of the total losses for 40 °C temperature rise.

Product specifications

| Part Number | Rated Inductance (μH) | OCL (1) +/-20% (μH) | Part Marking | I _{rms} (2) (A) | I _{sat} (3) (A) | DCR (4) (Ω) Typ. | Volt u-sec Typ. |
|-------------|-----------------------|---------------------|--------------|--------------------------|--------------------------|------------------|-----------------|
| SD14-R58-R | 0.58 | 0.61 | A | 3.52 | 4.84 | 0.0220 | 3.38 |
| SD14-R87-R | 0.87 | 0.88 | B | 3.2 | 3.96 | 0.0243 | 4.13 |
| SD14-1R2-R | 1.2 | 1.23 | C | 2.7 | 3.35 | 0.0344 | 4.88 |
| SD14-1R5-R | 1.5 | 1.63 | D | 2.53 | 2.91 | 0.0390 | 5.63 |
| SD14-2R0-R | 2 | 2.09 | E | 2.37 | 2.56 | 0.0445 | 6.38 |
| SD14-2R5-R | 2.5 | 2.62 | F | 2.05 | 2.29 | 0.0595 | 7.1 |
| SD14-3R2-R | 3.2 | 3.19 | G | 1.94 | 2.08 | 0.0663 | 7.9 |
| SD14-4R5-R | 4.5 | 4.53 | H | 1.64 | 1.74 | 0.0935 | 9.4 |
| SD14-6R9-R | 6.9 | 6.98 | J | 1.35 | 1.41 | 0.1363 | 11.6 |
| SD14-8R8-R | 8.8 | 8.88 | K | 1.14 | 1.25 | 0.1913 | 13.1 |
| SD14-100-R | 10 | 9.93 | L | 1.1 | 1.18 | 0.2058 | 13.9 |
| SD14-150-R | 15 | 14.68 | M | 0.98 | 0.969 | 0.2609 | 16.9 |
| SD14-220-R | 22 | 21.93 | N | 0.806 | 0.793 | 0.3853 | 20.6 |
| SD14-330-R | 33 | 32.55 | O | 0.654 | 0.651 | 0.5852 | 25.1 |
| SD14-470-R | 47 | 47.57 | P | 0.525 | 0.538 | 0.9055 | 30.4 |
| SD14-680-R | 68 | 68.21 | Q | 0.474 | 0.449 | 1.11 | 36 |
| SD14-820-R | 82 | 83 | R | 0.408 | 0.407 | 1.50 | 40 |
| SD14-101-R | 100 | 99.25 | S | 0.386 | 0.373 | 1.68 | 44 |
| SD14-151-R | 150 | 152.4 | T | 0.315 | 0.301 | 2.52 | 54 |
| SD14-221-R | 220 | 222 | U | 0.258 | 0.249 | 3.77 | 66 |
| SD14-331-R | 330 | 335.1 | V | 0.206 | 0.203 | 5.92 | 81 |
| SD14-471-R | 470 | 471.4 | W | 0.173 | 0.171 | 8.34 | 96 |
| SD14-681-R | 680 | 683.3 | X | 0.156 | 0.142 | 10.3 | 115 |
| SD14-821-R | 820 | 823.4 | Y | 0.134 | 0.129 | 13.9 | 126 |
| SD14-102-R | 1000 | 1008 | Z | 0.126 | 0.117 | 15.8 | 140 |
| SD18-R47-R | 0.47 | 0.49 | A | 3.58 | 4.63 | 0.0201 | 2.35 |
| SD18-R82-R | 0.82 | 0.81 | B | 3.24 | 3.60 | 0.0247 | 3.02 |
| SD18-1R2-R | 1.20 | 1.21 | C | 2.97 | 2.95 | 0.0294 | 3.70 |
| SD18-1R5-R | 1.50 | 1.69 | D | 2.73 | 2.49 | 0.0345 | 4.37 |
| SD18-2R2-R | 2.20 | 2.25 | E | 2.55 | 2.16 | 0.0398 | 5.04 |
| SD18-3R3-R | 3.30 | 3.61 | F | 2.07 | 1.71 | 0.0605 | 6.38 |
| SD18-4R7-R | 4.70 | 4.41 | G | 1.77 | 1.54 | 0.0824 | 7.06 |
| SD18-6R2-R | 6.20 | 6.25 | H | 1.61 | 1.30 | 0.1000 | 8.40 |
| SD18-8R2-R | 8.20 | 8.41 | J | 1.38 | 1.12 | 0.1351 | 9.74 |
| SD18-100-R | 10.0 | 10.89 | K | 1.28 | 0.982 | 0.1584 | 11.09 |
| SD18-150-R | 15.0 | 15.21 | L | 1.06 | 0.831 | 0.2278 | 13.10 |
| SD18-220-R | 22.0 | 22.09 | M | 0.876 | 0.689 | 0.3366 | 15.79 |
| SD18-330-R | 33.0 | 32.49 | N | 0.715 | 0.568 | 0.5057 | 19.15 |
| SD18-470-R | 47.0 | 47.61 | O | 0.578 | 0.470 | 0.7732 | 23.18 |
| SD18-680-R | 68.0 | 68.89 | P | 0.514 | 0.390 | 0.9798 | 27.89 |
| SD18-820-R | 82.0 | 82.81 | Q | 0.446 | 0.356 | 1.30 | 30.58 |
| SD18-101-R | 100 | 102.01 | R | 0.419 | 0.321 | 1.47 | 33.94 |
| SD18-151-R | 150 | 151.29 | S | 0.345 | 0.263 | 2.18 | 41.33 |
| SD18-221-R | 220 | 222.01 | T | 0.296 | 0.217 | 2.95 | 50.06 |
| SD18-331-R | 330 | 334.89 | U | 0.248 | 0.177 | 4.20 | 61.49 |
| SD18-471-R | 470 | 479.61 | V | 0.201 | 0.148 | 6.39 | 73.58 |
| SD18-681-R | 680 | 681.21 | W | 0.167 | 0.124 | 9.28 | 87.70 |
| SD18-821-R | 820 | 823.69 | X | 0.145 | 0.113 | 12.35 | 96.43 |
| SD18-102-R | 1000 | 1004 | Y | 0.136 | 0.102 | 14.01 | 107 |

(1) Open Circuit Inductance Test Parameters: 100 kHz, 0.25 V_{rms}, 0.0 Adc.

(2) RMS current for an approximate ΔT of 40 °C without core loss. It is recommended that the temperature of the part not exceed +125 °C.

(3) SD10,12,18,25 Peak current for approximate 30% rolloff at +20 °C.
SD14 Peak current for approximate 20% roll off at +20 °C.

(4) DCR limits @ +20 °C.

5) Applied Volt-Time product (V-us) across the inductor at 100 kHz necessary to generate a core loss equal to 10% of the total losses for 40 °C temperature rise.

Product specifications

| Part Number | Rated Inductance (μH) | OCL (1) +/-20% (μH) | Part Marking | I _{rms} (2) Amperes | I _{sat} (3) Amperes | DCR (4) (Ω) Typ. | Volt u-sec Typ. |
|-------------|-----------------------|---------------------|--------------|------------------------------|------------------------------|------------------|-----------------|
| SD20-R47-R | 0.47 | 0.490 | A | 3.59 | 4.00 | 0.0200 | 2.28 |
| SD20-1R2-R | 1.20 | 1.21 | B | 3.07 | 2.55 | 0.0275 | 3.58 |
| SD20-1R5-R | 1.50 | 1.69 | C | 2.88 | 2.15 | 0.0312 | 4.23 |
| SD20-2R2-R | 2.20 | 2.25 | D | 2.45 | 1.87 | 0.0429 | 4.88 |
| SD20-3R3-R | 3.30 | 3.61 | E | 2.17 | 1.47 | 0.0547 | 6.18 |
| SD20-4R7-R | 4.70 | 4.41 | F | 2.05 | 1.33 | 0.0612 | 6.83 |
| SD20-6R2-R | 6.20 | 6.25 | G | 1.89 | 1.12 | 0.0720 | 8.13 |
| SD20-8R2-R | 8.20 | 8.41 | H | 1.61 | 0.966 | 0.1000 | 9.43 |
| SD20-100-R | 10.0 | 9.61 | J | 1.53 | 0.903 | 0.1100 | 10.08 |
| SD20-150-R | 15.0 | 15.21 | K | 1.25 | 0.718 | 0.1655 | 12.68 |
| SD20-220-R | 22.0 | 22.09 | L | 1.12 | 0.596 | 0.2053 | 15.28 |
| SD20-330-R | 33.0 | 32.49 | M | 0.913 | 0.491 | 0.3100 | 18.53 |
| SD20-470-R | 47.0 | 47.61 | N | 0.745 | 0.406 | 0.4650 | 22.43 |
| SD20-680-R | 68.0 | 68.89 | O | 0.610 | 0.337 | 0.6947 | 26.98 |
| SD20-820-R | 82.0 | 82.81 | P | 0.576 | 0.308 | 0.7785 | 29.58 |
| SD20-101-R | 100 | 98.01 | Q | 0.495 | 0.283 | 1.06 | 32.18 |
| SD20-151-R | 150 | 151.3 | R | 0.435 | 0.228 | 1.37 | 39.98 |
| SD20-221-R | 220 | 222.0 | S | 0.356 | 0.188 | 2.04 | 48.43 |
| SD20-331-R | 330 | 327.6 | T | 0.294 | 0.155 | 2.99 | 58.83 |
| SD20-471-R | 470 | 470.9 | U | 0.263 | 0.129 | 3.74 | 70.53 |
| SD20-681-R | 680 | 681.2 | V | 0.216 | 0.107 | 5.56 | 84.83 |
| SD20-821-R | 820 | 823.7 | W | 0.204 | 0.098 | 6.22 | 93.28 |
| SD20-102-R | 1000 | 1004.9 | X | 0.172 | 0.088 | 8.73 | 103 |
| SD25-R47-R | 0.47 | 0.466 | A | 3.88 | 6.00 | 0.0177 | 2.13 |
| SD25-R82-R | 0.82 | 0.770 | B | 3.58 | 4.67 | 0.0208 | 2.74 |
| SD25-1R2-R | 1.20 | 1.15 | C | 3.33 | 3.81 | 0.0240 | 3.34 |
| SD25-1R5-R | 1.50 | 1.61 | D | 3.12 | 3.23 | 0.0274 | 3.95 |
| SD25-2R2-R | 2.20 | 2.14 | E | 2.93 | 2.80 | 0.0311 | 4.56 |
| SD25-3R3-R | 3.30 | 3.43 | F | 2.64 | 2.21 | 0.0384 | 5.78 |
| SD25-4R7-R | 4.70 | 5.03 | G | 2.39 | 1.83 | 0.0467 | 6.99 |
| SD25-6R8-R | 6.80 | 6.93 | H | 2.19 | 1.56 | 0.0556 | 8.21 |
| SD25-8R2-R | 8.20 | 7.99 | J | 1.92 | 1.45 | 0.0724 | 8.82 |
| SD25-100-R | 10.0 | 10.35 | K | 1.80 | 1.27 | 0.0824 | 10.03 |
| SD25-150-R | 15.0 | 14.45 | L | 1.67 | 1.08 | 0.0956 | 11.86 |
| SD25-220-R | 22.0 | 22.81 | M | 1.34 | 0.857 | 0.1478 | 14.90 |
| SD25-330-R | 33.0 | 33.07 | N | 1.11 | 0.711 | 0.2149 | 17.94 |
| SD25-470-R | 47.0 | 47.89 | O | 0.919 | 0.592 | 0.3156 | 21.58 |
| SD25-680-R | 68.0 | 68.64 | P | 0.741 | 0.482 | 0.4850 | 25.84 |
| SD25-820-R | 82.0 | 82.17 | Q | 0.713 | 0.441 | 0.5242 | 28.27 |
| SD25-101-R | 100 | 100.79 | R | 0.670 | 0.398 | 0.5937 | 31.31 |
| SD25-151-R | 150 | 148.4 | S | 0.553 | 0.328 | 0.8723 | 38.00 |
| SD25-221-R | 220 | 222.4 | T | 0.446 | 0.268 | 1.34 | 46.51 |
| SD25-331-R | 330 | 332.2 | U | 0.359 | 0.219 | 2.07 | 56.85 |
| SD25-471-R | 470 | 472.4 | V | 0.293 | 0.184 | 3.10 | 67.79 |
| SD25-681-R | 680 | 677.2 | W | 0.262 | 0.154 | 3.88 | 81.17 |
| SD25-821-R | 820 | 826.7 | X | 0.230 | 0.139 | 5.04 | 89.68 |
| SD25-102-R | 1000 | 1003.4 | Y | 0.216 | 0.126 | 5.70 | 98.80 |

(1) Open Circuit Inductance Test Parameters: 100 kHz, 0.25 Vrms, 0.0 Adc.

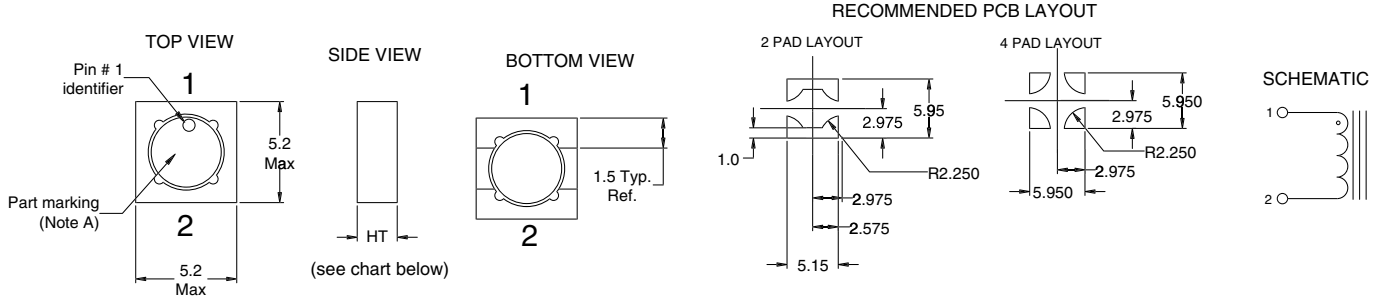
(2) RMS current for an approximate ΔT of 40 °C without core loss. It is recommended that the temperature of the part not exceed +125 °C.

(3) SD10,12,18,25 Peak current for approximate 30% roll off at +20 °C.
SD14 Peak current for approximate 20% roll off at +20 °C.

(4) DCR limits @ +20 °C.

5) Applied Volt-Time product (V-us) across the inductor at 100 kHz necessary to generate a core loss equal to 10% of the total losses for 40 °C temperature rise.

Dimensions-mm



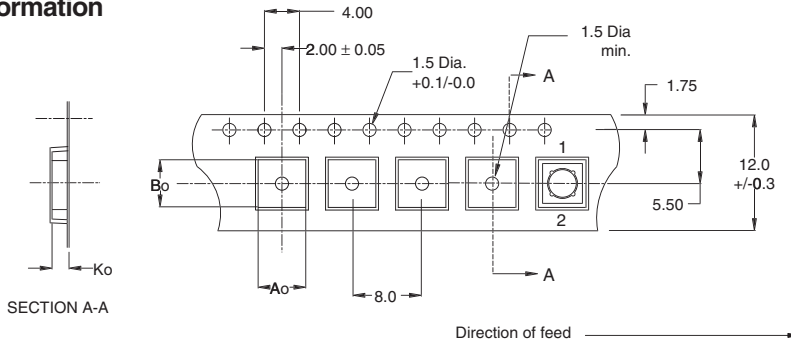
| Series | HT |
|--------|------------|
| SD10 | 1.0mm max |
| SD12 | 1.2mm max |
| SD14 | 1.45mm max |
| SD18 | 1.8mm max |
| SD20 | 2.0mm max |
| SD25 | 2.5mm max |

A) Part Marking: Line 1: (1st digit indicates the inductance value per part marking designator in chart above)
(2nd digit is a bi-weekly production date code)
(3rd digit is the last digit of the year produced)
Line 2: XX (indicates the product size code)
Do not route traces or vias underneath the inductor

Packaging Information

SD10

A0=5.45mm
Bo=5.45mm
Ko=1.20mm

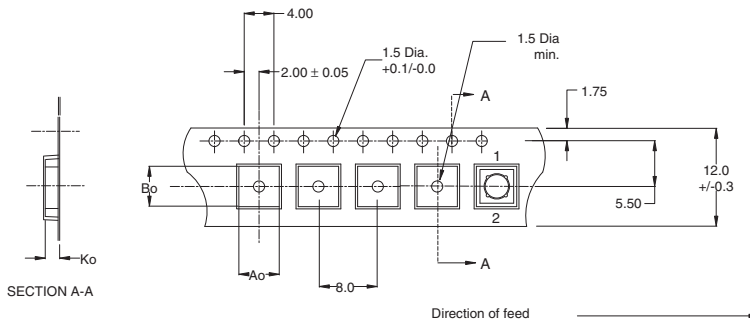


ACTUAL SIZE
SD10

Parts packaged on 13" Diameter reel,
3,800 parts per reel.

SD12/14/18

A0=5.45mm
Bo=5.45mm
Ko=2.00mm



ACTUAL SIZE
SD12

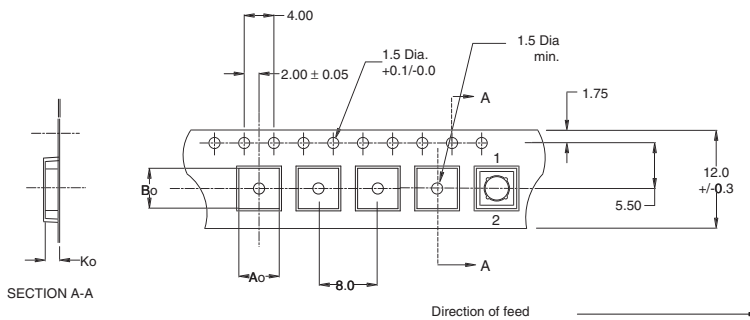
ACTUAL SIZE
SD14

ACTUAL SIZE
SD18

Parts packaged on 13" Diameter reel,
3,800 parts per reel.

SD20/25

A0=5.45mm
Bo=5.45mm
Ko=2.70mm



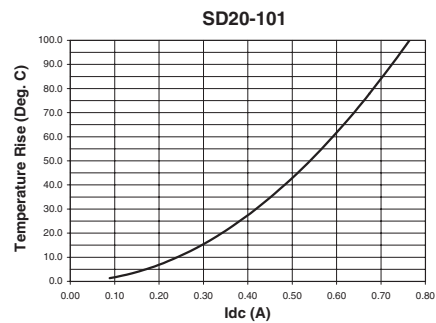
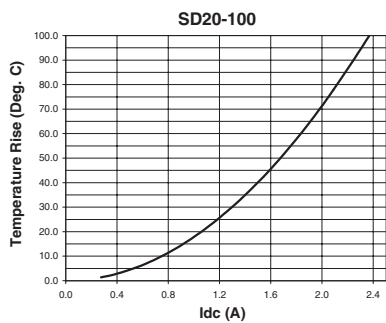
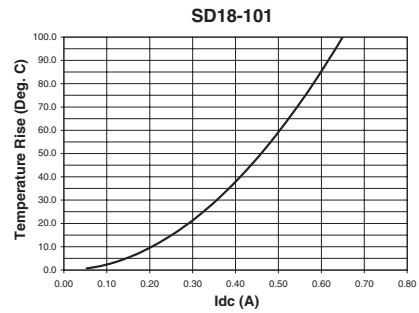
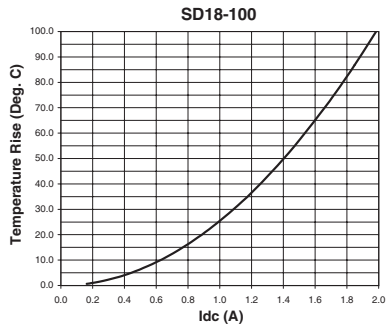
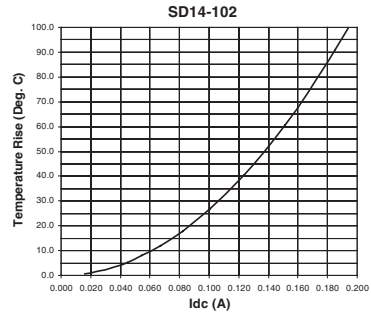
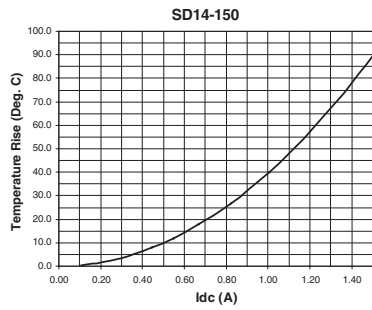
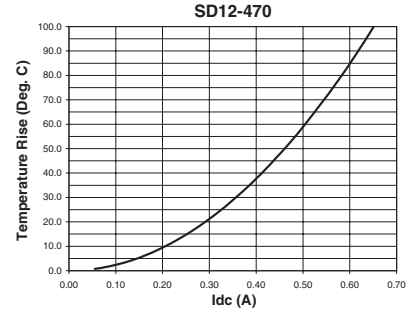
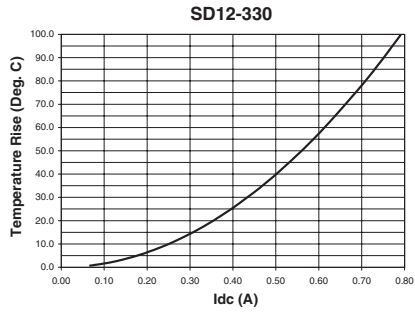
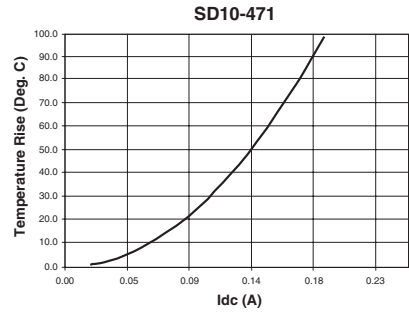
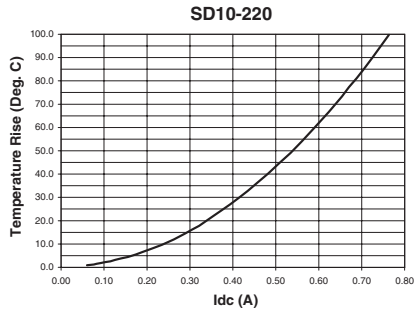
ACTUAL SIZE
SD20

ACTUAL SIZE
SD25

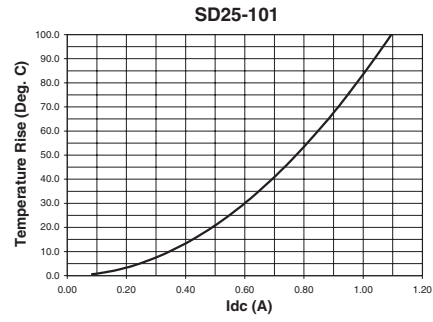
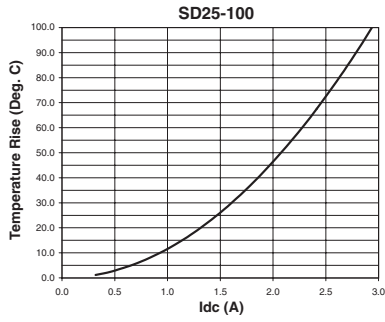
Parts packaged on 13" Diameter reel,
2,900 parts per reel.

Dimensions are in millimeters.

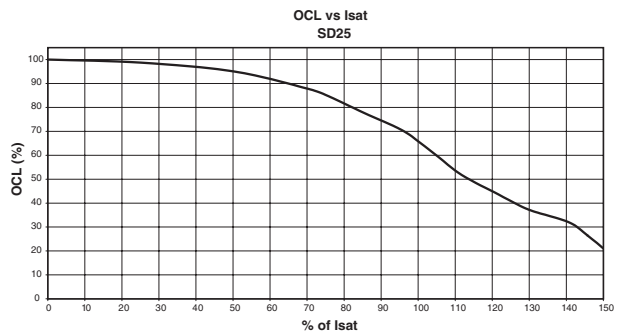
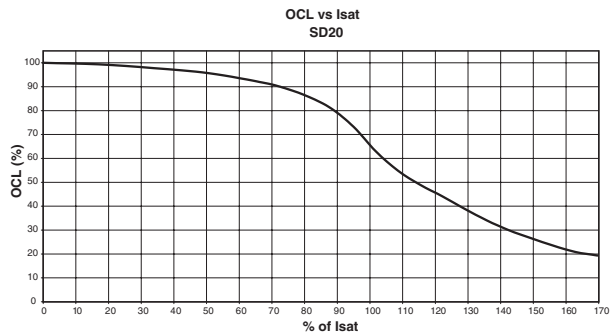
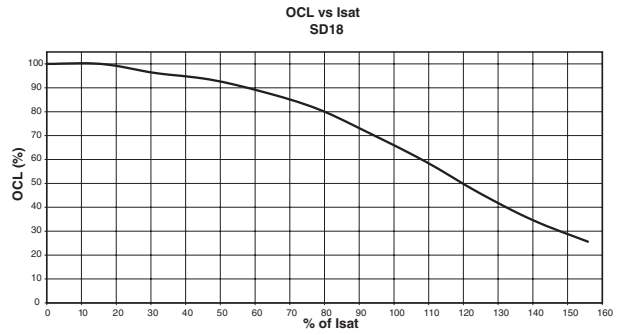
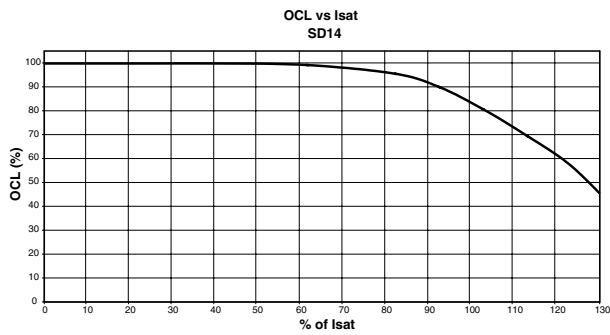
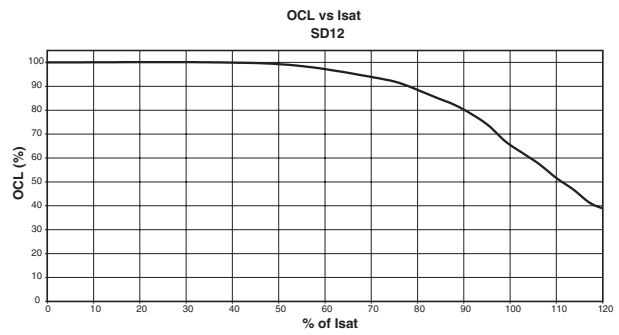
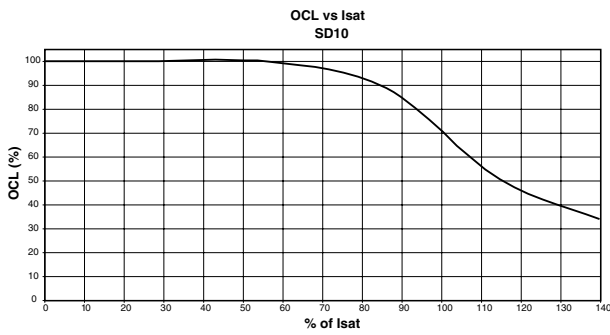
Temperature rise vs current



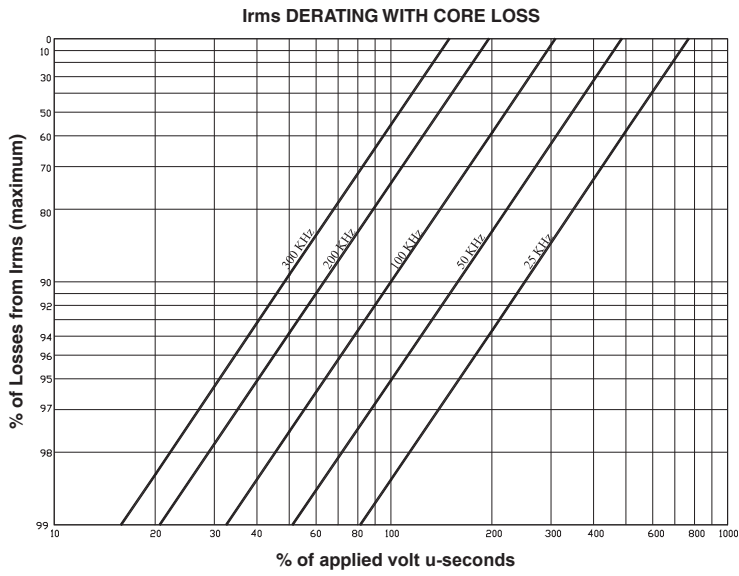
Temperature rise vs current



Inductance Characteristics



Core loss



Solder Reflow Profile

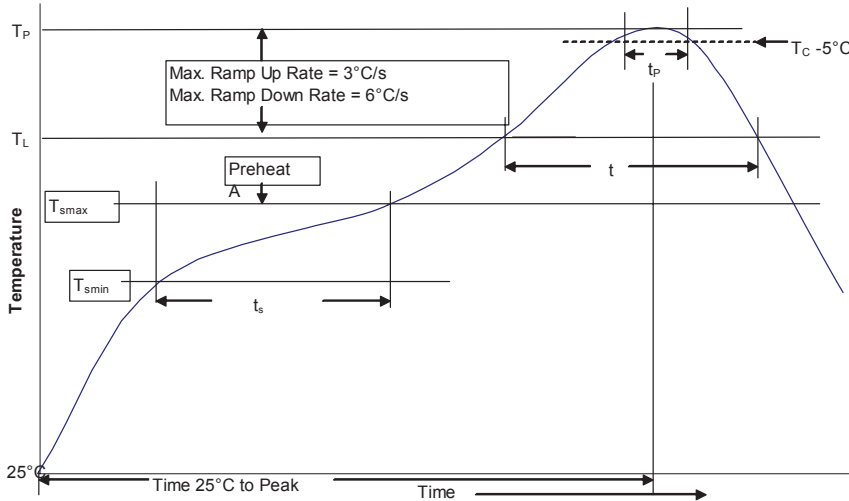


Table 1 - Standard SnPb Solder (T_C)

| Package Thickness | Volume mm^3 <350 | Volume mm^3 ≥ 350 |
|---------------------|---------------------------|---------------------------------|
| <2.5mm | 235°C | 220°C |
| $\geq 2.5\text{mm}$ | 220°C | 220°C |

Table 2 - Lead (Pb) Free Solder (T_C)

| Package Thickness | Volume mm^3 <350 | Volume mm^3 350 - 2000 | Volume mm^3 >2000 |
|-------------------|---------------------------|---------------------------------|----------------------------|
| <1.6mm | 260°C | 260°C | 260°C |
| 1.6 – 2.5mm | 260°C | 250°C | 245°C |
| >2.5mm | 250°C | 245°C | 245°C |

Reference JDEC J-STD-020

| Profile Feature | Standard SnPb Solder | Lead (Pb) Free Solder |
|--|----------------------|-----------------------|
| Preheat and Soak | | |
| • Temperature min. (T_{smin}) | 100°C | 150°C |
| • Temperature max. (T_{smax}) | 150°C | 200°C |
| • Time (T_{smin} to T_{smax}) (t_s) | 60-120 Seconds | 60-120 Seconds |
| Average ramp up rate T_{smax} to T_p | 3°C/ Second Max. | 3°C/ Second Max. |
| Liquidous temperature (T_L) | 183°C | 217°C |
| Time at liquidous (t_L) | 60-150 Seconds | 60-150 Seconds |
| Peak package body temperature (T_p)* | Table 1 | Table 2 |
| Time (t_p)** within 5 °C of the specified classification temperature (T_C) | 20 Seconds** | 30 Seconds** |
| Average ramp-down rate (T_p to T_{smax}) | 6°C/ Second Max. | 6°C/ Second Max. |
| Time 25°C to Peak Temperature | 6 Minutes Max. | 8 Minutes Max. |

* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

** Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

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Printed in USA
Publication No. PM4311
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