

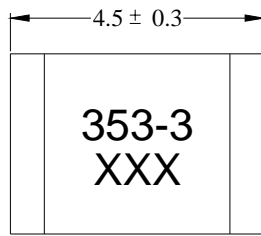
SMD INDUCTOR DR353-3 SERIES
Features

- Low Profile Surface Mount Design
- Flat Top for Pick and Place
- Inductance Range from 1.0 μ H to 2200.0 μ H
- Operating Temp. -25°C to + 85°C
- Tinned Leads with Leaded Solder is Available (note 6)

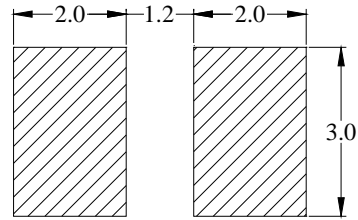

ELECTRICAL SPECIFICATIONS AT 25°C

| Part No. | Inductance (μ H) | | DCR (Ω) Max. | Q Min. | I _{rated} (mA) Max. | SRF (MHz) Min. |
|-------------|-----------------------|-------|--------------------------|-----------|---------------------------------|-------------------|
| DR353-3-102 | 1.0 \pm 20% | @1MHz | 0.20 | 20 | 500 | 120 |
| DR353-3-122 | 1.2 \pm 20% | @1MHz | 0.20 | 20 | 500 | 100 |
| DR353-3-152 | 1.5 \pm 20% | @1MHz | 0.30 | 20 | 500 | 85 |
| DR353-3-182 | 1.8 \pm 20% | @1MHz | 0.30 | 20 | 500 | 75 |
| DR353-3-222 | 2.2 \pm 20% | @1MHz | 0.30 | 20 | 500 | 62 |
| DR353-3-272 | 2.7 \pm 20% | @1MHz | 0.32 | 20 | 500 | 53 |
| DR353-3-332 | 3.3 \pm 20% | @1MHz | 0.35 | 20 | 500 | 47 |
| DR353-3-392 | 3.9 \pm 20% | @1MHz | 0.38 | 20 | 500 | 41 |
| DR353-3-472 | 4.7 \pm 20% | @1MHz | 0.40 | 30 | 500 | 38 |
| DR353-3-562 | 5.6 \pm 20% | @1MHz | 0.47 | 30 | 500 | 33 |
| DR353-3-682 | 6.8 \pm 20% | @1MHz | 0.50 | 30 | 450 | 31 |
| DR353-3-822 | 8.2 \pm 20% | @1MHz | 0.56 | 30 | 450 | 27 |
| DR353-3-103 | 10 \pm 10% | @1MHz | 0.56 | 35 | 400 | 23 |
| DR353-3-123 | 12 \pm 10% | @1MHz | 0.62 | 35 | 380 | 21 |
| DR353-3-153 | 15 \pm 10% | @1MHz | 0.73 | 35 | 360 | 19 |
| DR353-3-183 | 18 \pm 10% | @1MHz | 0.82 | 35 | 340 | 17 |
| DR353-3-223 | 22 \pm 10% | @1MHz | 0.94 | 35 | 320 | 15 |
| DR353-3-273 | 27 \pm 10% | @1MHz | 1.1 | 35 | 300 | 14 |
| DR353-3-333 | 33 \pm 10% | @1MHz | 1.2 | 35 | 270 | 12 |
| DR353-3-393 | 39 \pm 10% | @1MHz | 1.4 | 35 | 240 | 11 |
| DR353-3-473 | 47 \pm 10% | @1MHz | 1.5 | 35 | 220 | 10 |
| DR353-3-563 | 56 \pm 10% | @1MHz | 1.7 | 35 | 200 | 9.3 |
| DR353-3-683 | 68 \pm 10% | @1MHz | 1.9 | 35 | 180 | 8.4 |
| DR353-3-823 | 82 \pm 10% | @1MHz | 2.2 | 35 | 170 | 7.5 |
| DR353-3-104 | 100 \pm 10% | @1MHz | 2.5 | 40 | 160 | 6.8 |
| DR353-3-124 | 120 \pm 10% | @1MHz | 3.0 | 40 | 150 | 6.2 |
| DR353-3-154 | 150 \pm 10% | @1MHz | 3.7 | 40 | 130 | 5.5 |
| DR353-3-184 | 180 \pm 10% | @1MHz | 4.5 | 40 | 120 | 5.0 |
| DR353-3-224 | 220 \pm 10% | @1MHz | 5.4 | 40 | 110 | 4.5 |
| DR353-3-274 | 270 \pm 10% | @1MHz | 6.8 | 40 | 100 | 4.0 |
| DR353-3-334 | 330 \pm 10% | @1MHz | 8.2 | 40 | 95 | 3.6 |
| DR353-3-394 | 390 \pm 10% | @1MHz | 9.7 | 40 | 90 | 3.3 |
| DR353-3-474 | 470 \pm 10% | @1kHz | 11.8 | 40 | 80 | 3.0 |
| DR353-3-564 | 560 \pm 10% | @1kHz | 14.5 | 40 | 70 | 2.7 |
| DR353-3-684 | 680 \pm 10% | @1kHz | 17.0 | 40 | 65 | 2.5 |
| DR353-3-824 | 820 \pm 10% | @1kHz | 20.5 | 40 | 60 | 2.2 |
| DR353-3-105 | 1000 \pm 10% | @1kHz | 25.0 | 40 | 50 | 2.0 |
| DR353-3-125 | 1200 \pm 10% | @1kHz | 30.0 | 40 | 45 | 1.8 |
| DR353-3-155 | 1500 \pm 10% | @1kHz | 37.0 | 40 | 40 | 1.6 |
| DR353-3-185 | 1800 \pm 10% | @1kHz | 45.0 | 40 | 35 | 1.5 |
| DR353-3-225 | 2200 \pm 10% | @1kHz | 50.0 | 40 | 30 | 1.3 |

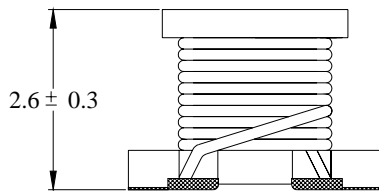
MECHANICAL OUTLINES



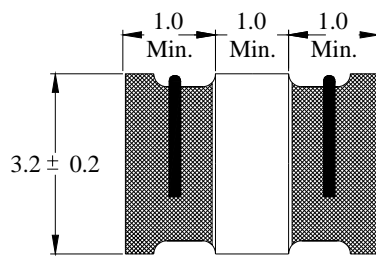
TOP VIEW



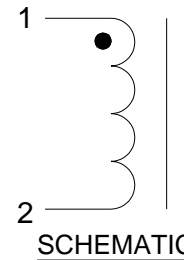
PCB SOLDER PAD LAYOUT (REF.)



FRONT VIEW



BOTTOM VIEW



SCHEMATIC

Notes:

1. All dimensions are shown in millimeter "mm"
2. General tolerance ± 0.2 mm, unless other specified
3. I_{rated} for an approximate 40°C temperature rise
4. I_{rated} for an approximate 20% drop maximum of the initial value
5. Tape and reel quantity, 500 pcs/reel
6. For non-RoHS parts replace DR prefix with 42- (e.g. DR353-3 becomes 42-353-3)
7. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C