



Dimensions in mm

Notes for LC48S shielded inductor:

Rated Current: Indicates the current when the inductance decreases to 65% of its nominal value or DC current when the temperature rise, $\Delta T = 40^{\circ}\text{C}$, whichever is lower.

Operating Temperature Range: $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$.

Inductance Tolerance: $T = \pm 30\%$ over the entire inductance range.

Magnetically shielded construction.

Manufactured to RoHS compliance.

| Part number | Inductance [$\mu\text{H} \pm 30\%$] | Test Frequency @ 1.0V | DC Resistance Ohms Max | Rated Current DC Amps Max |
|-------------|---------------------------------------|-----------------------|------------------------|---------------------------|
| LC48S-1R2T | 1.2 | 100 KHz | 0.0236 | 2.56 |
| LC48S-1R8T | 1.8 | 100 KHz | 0.0275 | 2.20 |
| LC48S-2R2T | 2.2 | 100 KHz | 0.0313 | 2.04 |
| LC48S-2R7T | 2.7 | 100 KHz | 0.0433 | 1.60 |
| LC48S-3R3T | 3.3 | 100 KHz | 0.0492 | 1.57 |
| LC48S-3R9T | 3.9 | 100 KHz | 0.0648 | 1.44 |
| LC48S-4R7T | 4.7 | 100 KHz | 0.0720 | 1.32 |
| LC48S-5R6T | 5.6 | 100 KHz | 0.1009 | 1.17 |
| LC48S-6R8T | 6.8 | 100 KHz | 0.1089 | 1.12 |
| LC48S-8R2T | 8.2 | 100 KHz | 0.1175 | 1.04 |
| LC48S-100T | 10 | 100 KHz | 0.1283 | 1.00 |
| LC48S-120T | 12 | 100 KHz | 0.1316 | 0.84 |
| LC48S-150T | 15 | 100 KHz | 0.1490 | 0.76 |
| LC48S-180T | 18 | 100 KHz | 0.1660 | 0.72 |
| LC48S-220T | 22 | 100 KHz | 0.2350 | 0.70 |
| LC48S-270T | 27 | 100 KHz | 0.2610 | 0.58 |
| LC48S-330T | 33 | 100 KHz | 0.3313 | 0.56 |
| LC48S-390T | 39 | 100 KHz | 0.3837 | 0.50 |
| LC48S-470T | 47 | 100 KHz | 0.5870 | 0.48 |
| LC48S-560T | 56 | 100 KHz | 0.6245 | 0.41 |
| LC48S-680T | 68 | 100 KHz | 0.6990 | 0.35 |
| LC48S-820T | 82 | 100 KHz | 0.9148 | 0.32 |
| LC48S-101T | 100 | 100 KHz | 1.020 | 0.29 |
| LC48S-121T | 120 | 100 KHz | 1.270 | 0.27 |
| LC48S-151T | 150 | 100 KHz | 1.350 | 0.24 |
| LC48S-181T | 180 | 100 KHz | 1.540 | 0.22 |