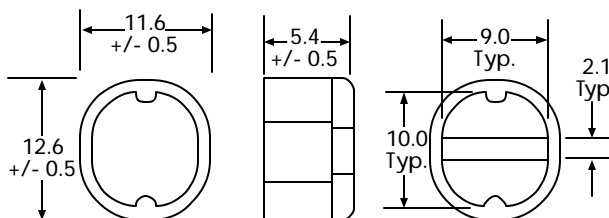


# LC125S SMD Shielded Power Inductors



## CHARACTERISTICS

INDUCTANCE RANGE 1  $\mu$ H to 68  $\mu$ H.

TOLERANCE 10% over entire range.

CURRENT RATING Current to cause maximum 10% of inductance drop, or 40°C temperature rise.

OPERATING TEMPERATURE -30°C to +100°C.

## FEATURES

- High current rating
- Low core loss for high frequency power application

## APPLICATIONS

- DC/DC Converters
- Computers
- Telecommunications equipment
- Filters
- LCD display

| PART NUMBER  | L $\pm$ 20% $\mu$ H | TEST FREQUENCY (MHz) | SELF RESONANT FREQUENCY TYPICAL (MHz) | DC RESISTANCE MAXIMUM (OHMS) | RATED DC CURRENT MAXIMUM (AMPS) |
|--------------|---------------------|----------------------|---------------------------------------|------------------------------|---------------------------------|
| LC125S-100M  | 10                  | 2.5                  | 24.2                                  | 0.05                         | 2.65                            |
| LC125S-120M  | 12                  | 2.5                  | 21.2                                  | 0.05                         | 2.50                            |
| LC125S-150M  | 15                  | 2.5                  | 18.9                                  | 0.06                         | 2.45                            |
| LC125S-180M  | 18                  | 2.5                  | 16.1                                  | 0.06                         | 2.40                            |
| LC125S-220M  | 22                  | 2.5                  | 15.2                                  | 0.07                         | 2.20                            |
| LC125S -270M | 27                  | 2.5                  | 13.9                                  | 0.08                         | 2.00                            |
| LC125S -330M | 33                  | 2.5                  | 12.8                                  | 0.10                         | 1.80                            |
| LC125S -390M | 39                  | 2.5                  | 11.6                                  | 0.11                         | 1.65                            |
| LC125S -470M | 47                  | 2.5                  | 10.4                                  | 0.12                         | 1.50                            |
| LC125S -560M | 56                  | 2.5                  | 9.12                                  | 0.15                         | 1.38                            |
| LC125S -680M | 68                  | 2.5                  | 8.50                                  | 0.17                         | 0.26                            |
| LC125S -820M | 82                  | 2.5                  | 7.85                                  | 0.20                         | 0.14                            |
|              |                     | TEST FREQUENCY (kHz) |                                       |                              |                                 |
| LC125S -101M | 100                 | 1.0                  | 6.92                                  | 0.25                         | 1.05                            |
| LC125S -121M | 120                 | 1.0                  | 6.34                                  | 0.28                         | 0.95                            |
| LC125S -151M | 150                 | 1.0                  | 5.55                                  | 0.40                         | 0.85                            |
| LC125S -181M | 180                 | 1.0                  | 5.10                                  | 0.48                         | 0.77                            |
| LC125S -221M | 220                 | 1.0                  | 4.51                                  | 0.52                         | 0.70                            |
| LC125S -271M | 270                 | 1.0                  | 4.37                                  | 0.70                         | 0.63                            |
| LC105S -331M | 330                 | 1.0                  | 3.90                                  | 0.80                         | 0.57                            |
| LC125S -391M | 390                 | 1.0                  | 3.55                                  | 1.08                         | 0.52                            |
| LC125S -471M | 470                 | 1.0                  | 3.25                                  | 1.20                         | 0.48                            |
| LC125S -561M | 560                 | 1.0                  | 2.94                                  | 1.34                         | 0.44                            |
| LC125S -681M | 680                 | 1.0                  | 2.64                                  | 1.78                         | 0.40                            |
| LC125S -821M | 820                 | 1.0                  | 2.42                                  | 2.00                         | 0.36                            |