

Miniature Inductors



Offering a wide range of inductance values and featuring integral EMI shielding, the latest inductors from power conversion and wound component specialist C & D Technologies (NCL) will suit power designs that have limited PCB board space yet require high saturation currents.

The new 23S00 bobbin wound surface mount inductors are low DC resistance devices that are designed for use in switching power supplies, power line filter circuits and DC-DC converter applications. Inductance values for the series range from 2.2 μ H to 220 μ H (1 kHz rms 100m VAC) making the devices compatible with a wide range of off-the-shelf chipsets.

Maximum continuous DC current ratings start at 0.25 A for the 220 μ H devices, increasing to 2.1 A for the 2.2 μ H parts, while corresponding maximum DC resistance values range from 2.28 Ω to just 0.019 Ω .

Requiring a maximum PCB footprint of only 5.6 x 6.2 mm and featuring a board-mounted profile only 3.2 mm, the new inductors are particularly suited to applications where space is at a premium. The integral EMI shield further helps to reduce board space by allowing the inductors to be mounted in close proximity to other components.

The new inductors will operate at temperatures from \pm 40 to 85 $^{\circ}$ C and are supplied in tape-and-reel packaging.

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