

## **FASTRON 1616FP Wirewound SMD Choke for Compact Power Applications**

FASTRON introduces the 1616FP, a compact wirewound SMD inductor tailored for power applications in space-constrained environments. Housed in a 1616 package (4.2 x 4.2 x 1.88 mm), it's well-suited for use in handheld electronics, portable devices, and LED lighting systems.

The 1616FP features a vertical ferrite core with a low-profile design—standing just 1.88 mm tall. Unlike the 1616FPS model, this version is unshielded, optimizing it for designs where minimal EMI shielding is acceptable.

Constructed with enameled copper wire wound around a ferrite core, it offers inductance values from 1  $\mu\text{H}$  to 100  $\mu\text{H}$ . DCR ranges from 50 m $\Omega$  to 2.35  $\Omega$ , with saturation currents from 0.40 A to 3.85 A and rated currents from 0.35 A to 2.8 A.

Delivered in tape-and-reel packaging for automated pick-and-place assembly, the 1616FP operates reliably across a wide temperature range of -40°C to +150°C (including self-heating). It is RoHS compliant, supports lead-free soldering processes, and meets AEC-Q200 qualification standards.

