Capacitor features low resistance, stable temperature characteristics

Murata Americas introduced its DMF series, a high peak current electrical double-layer capacitor (EDLC). The newest EDLC offering from Murata also features low resistance (40mΩ to 60mΩ) and stable temperature characteristics, enabling it to be charged and discharged frequently over the operating range of -30°C to +70°C. Initially, the DMF series will be offered with 330mF and 470mF capacitance values to support various energy requirement demands. Package thickness ranges from 2.5mm±0.2mm to 3.2mm±0.2mm and all products in the series provide an instantaneous maximum working voltage of 5.5V.

The DMF series features the highest power density levels available on the market, making the advanced supercapacitors ideal for use as an auxiliary power source in LED flash units, digital cameras and cell phones. Additional applications include peak load assist for GSM PA's, smart meters, compact motor starters, and USB power bus.

The new EDLC design provides an optimized internal configuration to improve energy and power density. In addition, the DMF series offers a simplified, inline terminal configuration that optimizes board space. The low ESR allows for high output current with quick charge and discharge characteristics.

The basis behind this new technology is the result of Murata's collaborations with CAP-XX. In order to meet consumer demand for mobile devices with greater efficiency and functionality, Murata strategically acquired leading edge super cap technology from CAP-XX in 2008. Murata's focus on EDLC research and development, coupled with CAP-XX's expertise, has led to the advancement of the enhanced EDLC design.DMF series pricing in sample/prototype quantities ranges from $3.75 - $4.25 depending on the model. Samples are available from stock to 2 weeks with production lead times of 8 weeks.

Murata Americas
www.murataamericas.com [1]

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[1] http://www.murataamericas.com