

DFC- Energy Discharge Application In AED



Highlights

- High charge / discharge cycles 2000 to 10,000
- Very low ESR
- Very low dissipation factor
- Silicon insulated wire termination and Faston terminations
- Plastic and Aluminum enclosures round and oval
- High energy density
- Monophasic and Biphasic designs
- RoHS compliant
- Flame retardancy UL94-V0

Physical Characteristics

- Dielectric material Polypropylene film
- Electrode material Metallised polypropylene film
- Winding construction Polypropylene film, metallised polypropylene
- Enclosure Performed UL- 94-V0 plastic with thermosetting resin-fill
- Terminals Flexible Silicon insulated UL 94V0 cable.

Electrical Characteristics

- Capacitance range (Cr @ 1 KHz) 32 μ F to 195 μ F
- Voltage range (Vr_{dc} @ 25°C) 1750 Vdc to 5000 Vdc
- Capacitance tolerance \pm 5% or as required
- Tan D @ 100 Hz, 25°C 0.015 max.
- Operating DV/DT 1.275 V/ μ S @ 4 pulses / minute, 25°C
- Maximum DV/DT 2.55 V/ μ S @ 0.8 Vr_{dc}, 25°C
- Voltage Bleed down (Δ V) 2% after 10 seconds after charged to Vr_{dc}, 25°C
- Normal voltage reversal (V_{rev}) 10%
- Test Voltage terminal to terminal V t-t 1.1 x Vr_{dc} for 1 minute
- Test Voltage terminal to case V t-c 5000 Vdc 10 Seconds
- Self inductance >1 μ H

- Typical operating cycles 2000 to 10,000 cycles
- Operating temperature -20°C To + 65°C
- Storage temperature -40°C To + 65°C
- Altitude Msl to 15000 feet approximate
- Mechanical Shock (IEC 68-2-27) 50 G peak half sinusoidal shock wave, 11 mSec. On 3 axis both directions 3 Shocks / axis
- Humidity IEC 61071 Class F: Max. relative humidity 75% annual means, 85% occasional, 95% 30 days / year, condensation not permitted.

Applications

Automated External Defibrillators