



**DGH407Q2R7**  
 +65°C Low ESR Supercapacitor  
 Parts are RoHS compliant

**ELECTRICAL SPECIFICATIONS**

Capacitance: 400 F  
 Temperature Range: -40°C to +65°C  
 -40°C to +85°C @ 2.3V for 2.7V rated parts  
 @ 4.6V for 5.5V rated parts  
 ESR (AC): 3 milliOhms Max at 20°C and 1 kHz  
 ESR (DC): 3.5 milliOhms Max at 20°C and DC

Tolerance: -10 % , +30 %  
 WVDC: 2.7 Volts DC  
 SVDC: 2.8 Volts DC

Weight: 68 grams  
 Maximum Stored Energy: 405 mWH  
 Volume: 57.73 ml

Maximum Current: 225 Amps (1 second discharge to 1/2 the rated voltage)  
 Operating Current: 84 Amps (5 sec discharge to 1/2 rated voltage)  
 Leakage Current: 1 mA after 72 hours

Specific Energy:  
 Specific Power:

Gravimetric Density: 5.956 Wh/kg  
 Volumetric Density: 7.016 Wh/l  
 Gravimetric Density: 4.02 kW/kg  
 Volumetric Density: 4.736 kW/l

Load Life: 1000 hours at 65°C with 100% of rated voltage applied  
 Max Capacitance Change: ≤30% of initially measured value  
 ESR Change: ≤200% of maximum specified value

**PHYSICAL DIMENSIONS**

Diameter (D): 35 mm, +/- 1 mm  
 Length (L): 60 mm, +/- 2 mm  
 Height (H): mm, +/- mm  
 Thickness (T): mm, +/- mm  
 Termination Finish: Matte Tin  
 Lead Spacing (S): 22.5 mm, +/-0.2 mm  
 Lead Diameter (d): 1.2 mm, +/- mm  
 Lead Length (LL): 6.3mm, +/- 1 mm

