



**DGH155Q5R5**  
 +65°C Low ESR Supercapacitor  
 Parts are RoHS compliant

**ELECTRICAL SPECIFICATIONS**

Capacitance: 1.5 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): 160 milliOhms Max at 20°C and 1 kHz  
 ESR (DC): 300 milliOhms Max at 20°C and DC

Tolerance: -10 % , +30 %  
 WVDC: 5.5 Volts DC  
 SVDC: 6 Volts DC

Weight: 3 grams  
 Maximum Stored Energy: 6.3 mWh  
 Volume: 3.32 ml

Maximum Current: 2.8 Amps (1 second discharge to 1/2 the rated voltage)  
 Operating Current: .74 Amps (5 sec discharge to 1/2 rated voltage)  
 Leakage Current: 0.012 mA after 72 hours

Specific Energy:  
 Specific Power:

Gravimetric Density: 2.101 Wh/kg  
 Volumetric Density: 1.896 Wh/l  
 Gravimetric Density: 4.033 kW/kg  
 Volumetric Density: 3.641 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): mm, +/- 0.5 mm  
 Length (L): 17 mm, +/- 2 mm  
 Height (H): 23 mm, +/- 2 mm  
 Thickness (T): 8.5 mm, +/- 1 mm  
 Termination Finish: Matte Tin  
 Lead Spacing (S): 12 mm, +/- 0.5 mm  
 Lead Diameter (d): 0.6 mm, +/- 0.05 mm  
 Lead Length (LL): 15mm, +/- MIN mm

