ISOLATION TRANSFORMERS FOR BATTERY MANAGEMENT SYSTEMS



HR600786E

Electrical Specification @25°C

RoHS Compliant (Pb Free)

Operating Temperature Range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ Isolation: 4300VDC 1mA 60S (Primary to Secondary) OCL: 150uH Minimum, 450uH Maximum @100KHz 100mV

Turns Ratio: 1 : 1 $\pm 2\%$ (Primary : Secondary)

PRI DC Resistance: 0.45 Ohms Maximum SEC DC Resistance: 0.85 Ohms Maximum

PRI Leakage Inductance: 0.5uH Maximum @100KHz 100mV SEC Shorted

Insertion Loss: -0.25dB Maximum @4MHz

Return Loss: -20dB Minimum @4MHz (Z OUT =100 OHM ± 1)

CMRR: -35dB Minimum @1MHz ~ 10 MHz / -20dB Minimum @10MHz ~ 1000 MHz

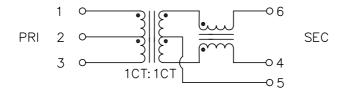
Insulation Resistance: $400M\Omega$ Minimum

Creepage Distance: > 5mm

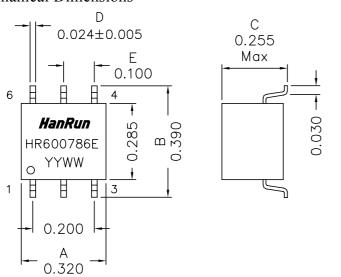
Design Construction: Functional insulation

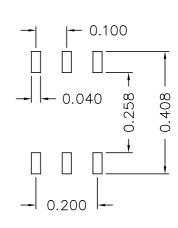
Working Voltage: 1000VDC.

Schematics



Mechanical Dimensions





SUGGESTED PCB LAYOUT

Dimensions in inches

Unless otherwise specified, Tolerance: $.xxx \pm 0.010$

REV.: 01 1 of 1

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