HPS

High Power Precision Shunt Resistor

-Up to 250W on heat sink

-Forced cooling, Terminal temp. & copper flange temp. ≤+60C)

-Max. current limit 387A (At. 1mΩ)

-Excellent long term stability & short term stability

-Low temperature coefficient of resistance(TCR)

-Applications: -High current sensing & reference resistors in laboratories. -Charge/discharge test equipment for high capacity batteries -Current sources & laboratory power supplies

■ GENERAL SPECIFICATIONS

| A CONTRACTOR | |
|--------------|---|
| | 2 |
| | |

| | Model | *Rated Power [W] | **Resistance value [mΩ] | Tolerance [%] | Short term stability[%] |
|---|-----------|------------------|-------------------------|-------------------|-------------------------|
| | HPS | 250 | 1, 2, 5, 10, 20, 50,100 | ±0.05(A), ±0.1(B) | ≤±0.02 / ≤±0.03 |
| | 111 0 200 | 200 | | ±0.5(D), ±1.0(F) | ≤±0.05 / ≤±0.1 |
| * Terminal temp & copper flange temp < +600, **. The resistance values of 20/50/100mQ are under development | | | | | |

f: Terminal temp.&copper flange temp. ≤ +60C **: The resistance values of 20/50/100mΩ are under development

■ CHARACTERISTICS

| Applicable temperature range | -55C ~ +100C | | |
|---------------------------------|--|--|--|
| Rated power | 250[W] | | |
| Resistance values | 1,2,5,10,20,50,100 [mΩ] | | |
| Tolerance | A(±0.05%) / B(±0.1%) / D(±0.5%)/ F (±1%) | | |
| Max. working current | 387A at 1mΩ | | |
| Dielectric withstanding voltage | AC 500V for 1Min. (Max. leakage current 2m A) | | |
| TCR | Max.±5 [ppm/C] | | |
| Short term stability | Current load for 1 hour at terminal temp & copper flange temp. ≤+60C | | |
| Chort term stability | ∆R ≤±0.02%/≤±0.03%/≤±0.05%/≤±0.1% | | |
| Long torm stability | ≤±0.2[%] after 1,000 hours | | |
| Long term stability | (Terminal temp≤+60C and copper flange. temp≤+60C) | | |

DIMENSIONS[mm] & DERATING CURVE



ORDERING PROCEDURE





Tolerance [%] A : ±0.05[%] / B : ±0.1[%] D : ±0.5[%] / F : ±1.0[%]

