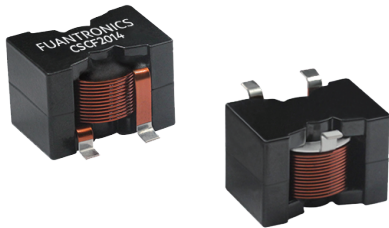


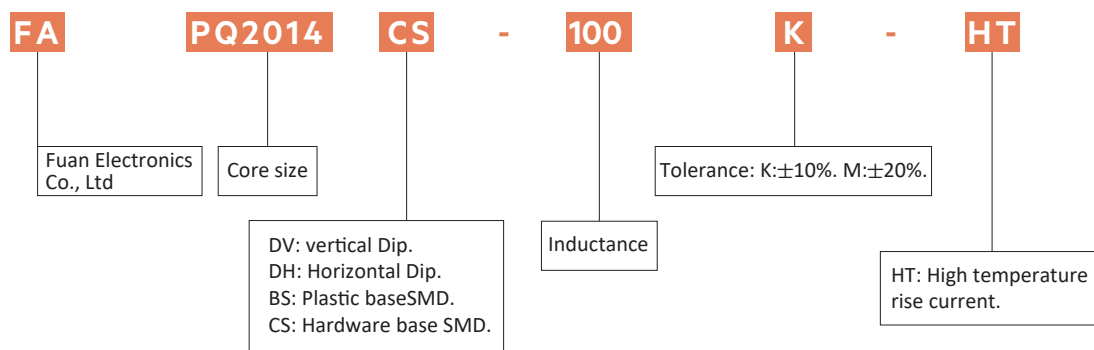
# HIGH CURRENT POWER INDUCTOR

## FAPQ2014 SERIES



### ELECTRICAL SPECIFICATION

- Assemblage design, sturdy structure
- High current, low magnetic loss, low ESR, small parasitic capacitance
- Flat wire winding, achieve a low DCR. Temperature rise current and saturation current is less influenced by environment
- Operating Temperature Range: -40°C to +125°C. (Including coilis temperature rise)
- All Parts Meet Rohs Compliance.
- Weight: App. 16.5g



### ELECTRICAL CHARACTERISTICS AT 25°C

| Part Number       | Ind.(uH) | D.C.Resistance (mΩ) |      | I <sub>last</sub> (A)Typical |           | I <sub>rms</sub> (A)Typical: Δt40°C |  |
|-------------------|----------|---------------------|------|------------------------------|-----------|-------------------------------------|--|
|                   |          | Typ                 | Max  | Drop20%                      | 5 minutes | 30 minutes                          |  |
| FAPQ2014□-2R2M    | 2.2      | 2.58                | 2.75 | 60                           | 26.0      | 20.0                                |  |
| FAPQ2014□-2R2M-HT | 2.2      | 2.00                | 2.30 | 60                           | 24.0      | 24.0                                |  |
| FAPQ2014□-2R7M    | 2.7      | 2.58                | 2.75 | 52                           | 26.0      | 20.0                                |  |
| FAPQ2014□-2R7M-HT | 2.7      | 2.00                | 2.30 | 52                           | 24.0      | 24.0                                |  |
| FAPQ2014□-3R3M    | 3.3      | 2.58                | 2.75 | 48                           | 26.0      | 20.0                                |  |
| FAPQ2014□-3R3M-HT | 3.3      | 2.00                | 2.30 | 48                           | 24.0      | 24.0                                |  |
| FAPQ2014□-4R7M    | 4.7      | 2.58                | 2.75 | 33                           | 26.0      | 20.0                                |  |
| FAPQ2014□-4R7M-HT | 4.7      | 2.00                | 2.30 | 33                           | 24.0      | 24.0                                |  |
| FAPQ2014□-5R6M    | 5.6      | 2.58                | 2.75 | 28                           | 26.0      | 20.0                                |  |
| FAPQ2014□-5R6M-HT | 5.6      | 2.00                | 2.30 | 28                           | 26.0      | 24.0                                |  |
| FAPQ2014□-6R8M    | 6.8      | 2.58                | 2.75 | 23                           | 24.0      | 20.0                                |  |

# Product datasheet

## ELECTRICAL CHARACTERISTICS AT 25°C

Dimension in mm

| Part Number       | Ind.(uH) | D.C.Resistance (mΩ) |      | I <sub>last</sub> (A)Typical |           | I <sub>rms</sub> (A)Typical: Δt40°C |  |
|-------------------|----------|---------------------|------|------------------------------|-----------|-------------------------------------|--|
|                   |          | Typ                 | Max  | Drop20%                      | 5 minutes | 30 minutes                          |  |
| FAPQ2014□-6R8M-HT | 6.8      | 2.00                | 2.30 | 23                           | 26.0      | 24.0                                |  |
| FAPQ2014□-8R2M    | 8.2      | 2.58                | 2.75 | 19                           | 24.0      | 20.0                                |  |
| FAPQ2014□-8R2M-HT | 8.2      | 2.00                | 2.30 | 19                           | 26.0      | 24.0                                |  |
| FAPQ2014□-100K    | 10       | 4.40                | 5.00 | 20                           | 18.0      | 16.0                                |  |
| FAPQ2014□-150K    | 15       | 4.40                | 5.00 | 14                           | 18.0      | 16.0                                |  |
| FAPQ2014□-220K    | 22       | 10.2                | 11.0 | 15                           | 13.0      | 11.0                                |  |
| FAPQ2014□-270K    | 27       | 10.2                | 11.0 | 12                           | 13.0      | 11.0                                |  |
| FAPQ2014□-330K    | 33       | 10.2                | 11.0 | 9                            | 13.0      | 11.0                                |  |

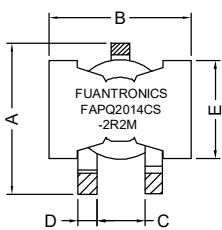
### TEST CONDITIONS:

- 1.All data is tested based on 25°C ambient temperature.
- 2.Inductance measure condition at 100KHz 0.1V.
- 3.Temperature rise current: the actual value of DC current when the temperature rise is T40°C(Ta=25°C).
- 4.Special remind: Circuit design,component planement,PWB size and thickness,cooling system and etc.all will affect the product temperature.Please verify the product temprure in the final application..

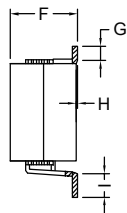
## ELECTRICAL INFORMATION

Dimension in mm

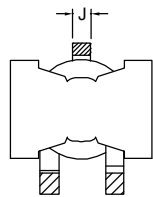
### 2014CS



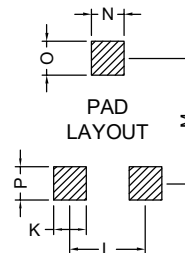
Top view



Side view

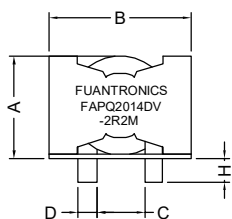


Bottom view

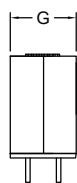


|   |           |   |           |
|---|-----------|---|-----------|
| A | 22.5 Max  | I | 2.50±0.50 |
| B | 21.8 Max  | J | 2.50±0.20 |
| C | 7.00±0.60 | K | 5.00 REF  |
| D | 2.50±0.20 | L | 9.50 REF  |
| E | 14.0±0.50 | M | 19.3 REF  |
| F | 14.5 Max  | N | 5.00 REF  |
| G | 2.00 REF  | O | 5.00 REF  |
| H | 0-0.15    | P | 5.00 REF  |

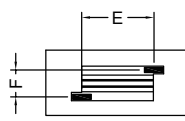
### 2014DV



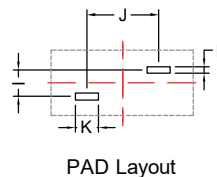
Top view



Side view



Bottom view



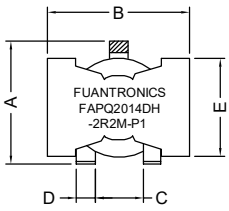
|   |           |   |          |
|---|-----------|---|----------|
| A | 16.0 Max  | I | 6.00 REF |
| B | 21.8 Max  | J | 9.50 REF |
| C | 7.00±0.60 | K | 5.00 REF |
| D | 2.50±0.20 | L | 1.50 REF |
| E | 9.50±0.50 |   |          |
| F | 6.00±0.50 |   |          |
| G | 14.5 Max  |   |          |
| H | 3.50±0.50 |   |          |

# Product datasheet

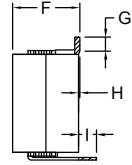
## ELECTRICAL INFORMATION

Dimension in mm

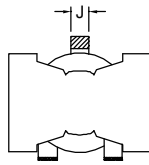
2014DH-P1



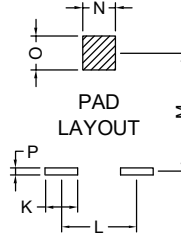
Top view



Side view

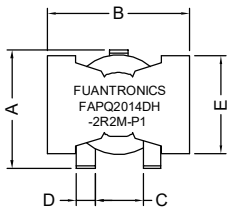


Bottom view

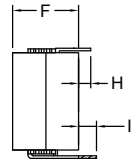


|   |           |   |           |
|---|-----------|---|-----------|
| A | 22.5 Max  | I | 3.50±0.50 |
| B | 21.8 Max  | J | 2.50±0.20 |
| C | 7.00±0.60 | K | 5.00 REF  |
| D | 2.50±0.20 | L | 9.50 REF  |
| E | 14.0±0.50 | M | 17.5 REF  |
| F | 14.5 Max  | N | 5.00 REF  |
| G | 2.00 REF  | O | 5.00 REF  |
| H | 0-0.15    | P | 1.50 REF  |

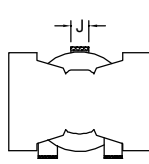
2014DH-P2



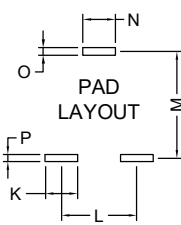
Top view



Side view



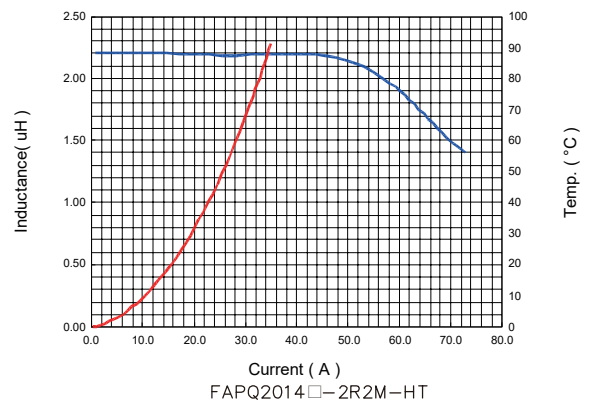
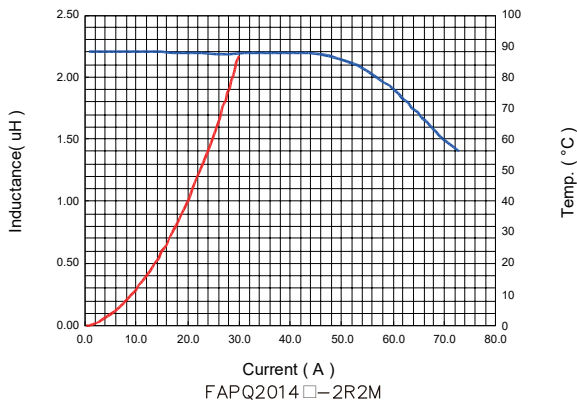
Bottom view



|   |           |   |           |
|---|-----------|---|-----------|
| A | 22.5 Max  | I | 3.50±0.50 |
| B | 21.8 Max  | J | 2.50±0.20 |
| C | 7.00±0.60 | K | 5.00 REF  |
| D | 2.50±0.20 | L | 9.50 REF  |
| E | 14.0±0.50 | M | 15.0 REF  |
| F | 14.5 Max  | N | 5.00 REF  |
| G | 2.00 REF  | O | 1.50 REF  |
| H | 2.50±0.50 | P | 1.50 REF  |

## CURRENT VS TEMPERATURE RISE

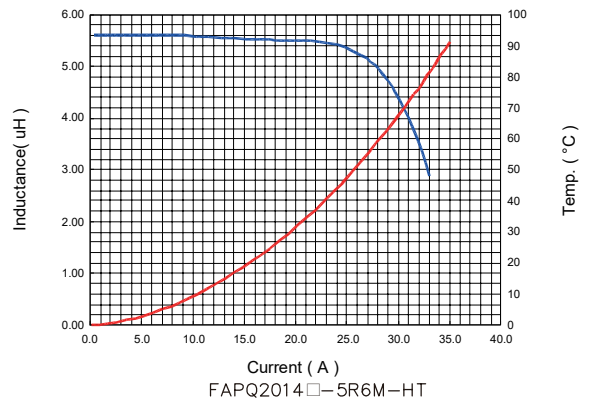
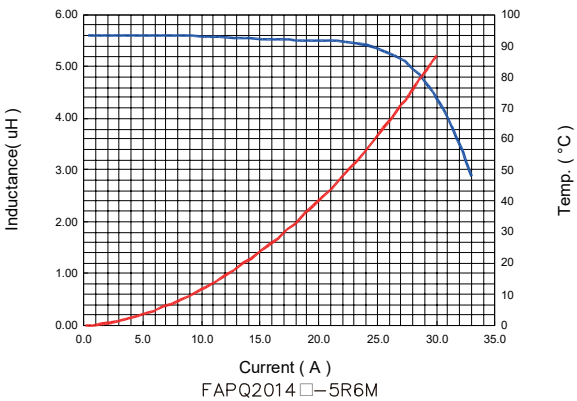
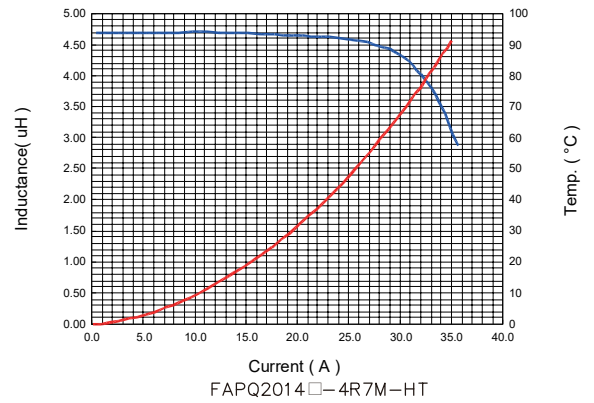
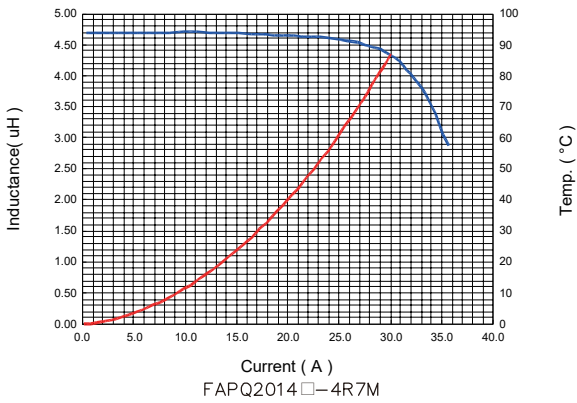
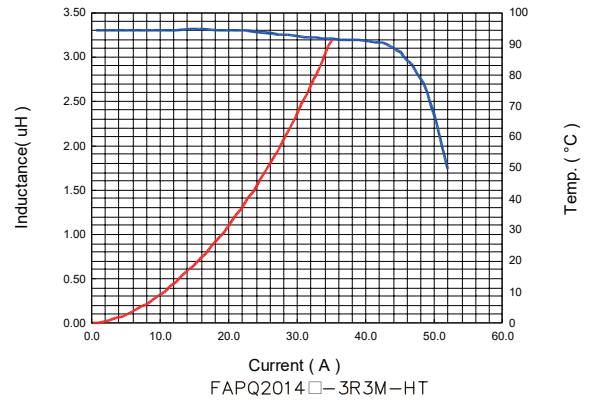
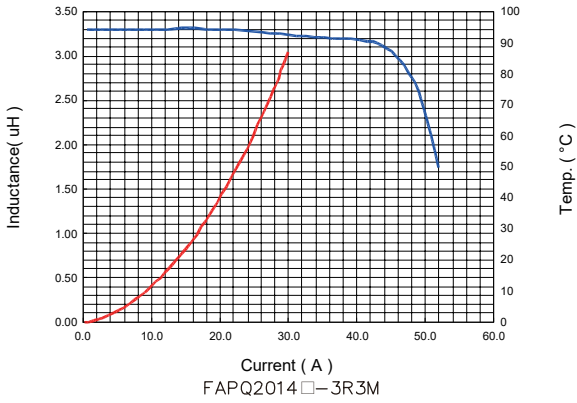
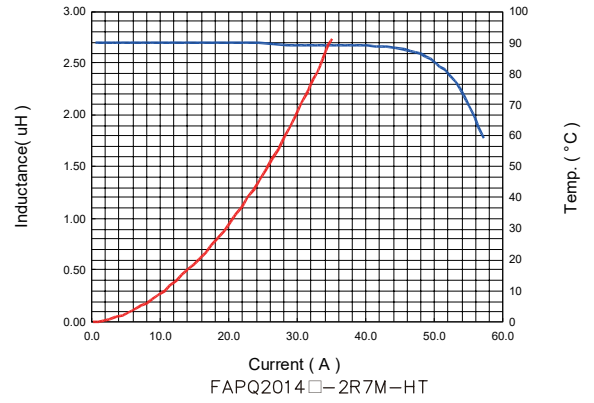
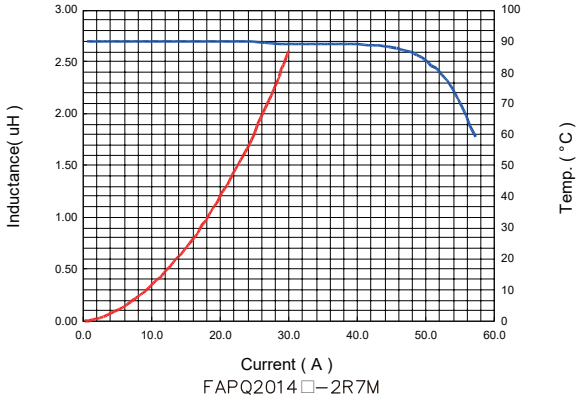
(Temperature rise current is 30 minutes)



# Product datasheet

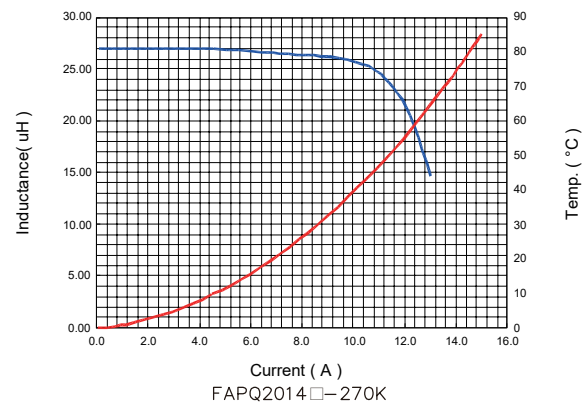
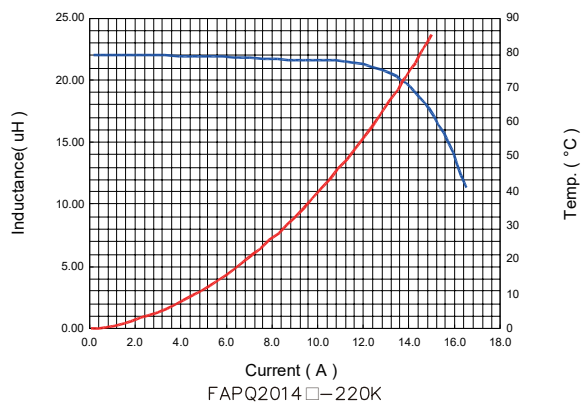
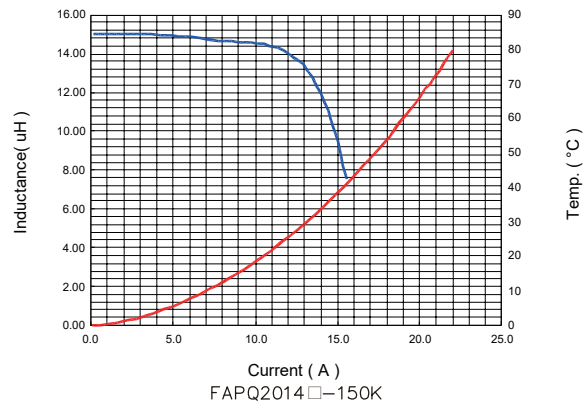
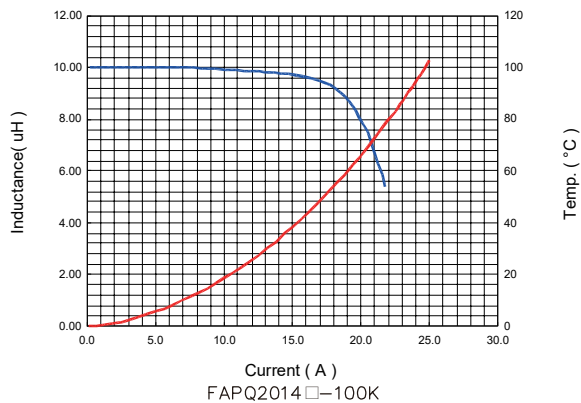
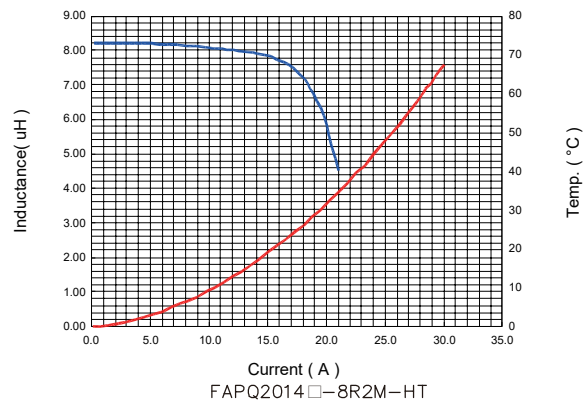
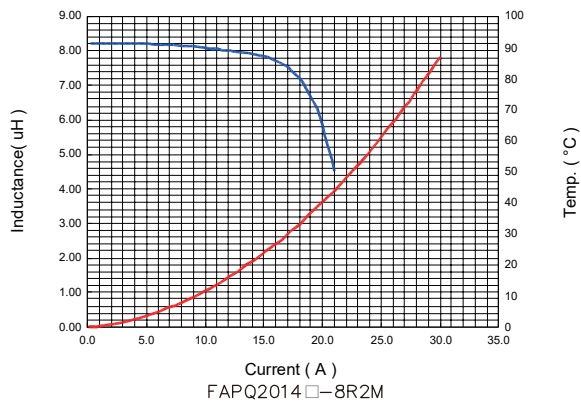
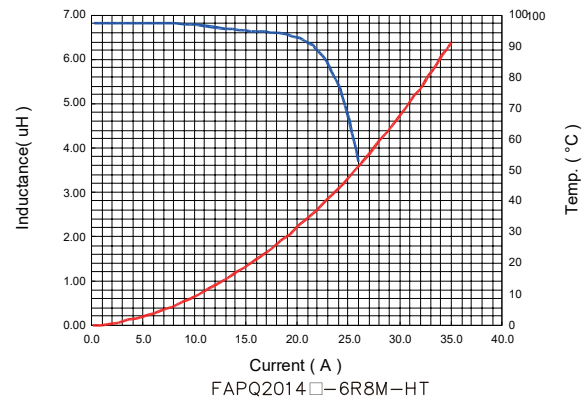
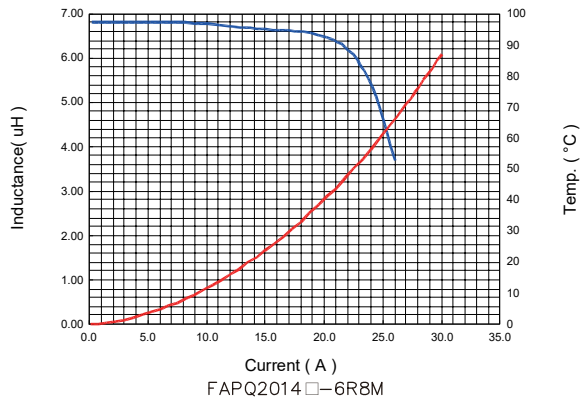
## CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)



CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)



# Product datasheet

## CURRENT VS TEMPERATURE RISE

(Temperature rise current is 30 minutes)

