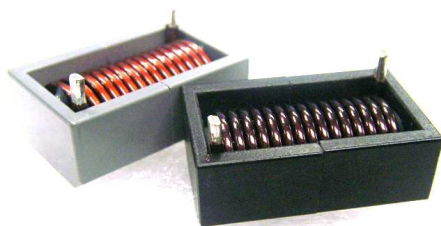


## Electrical / Environmental

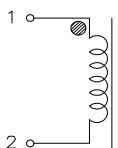
# HA55

## Power Inductor



- Operating Temperature Range -40°C to +155°C
- Ambient Temperature, Maximum +85°C
- High inductance, high efficiency and excellent current handling.
- Use as DC-DC converter and in high current applications. Suitable for industrial as well as automotive application.

## Electrical Schematic



## Specifications @ 25°C

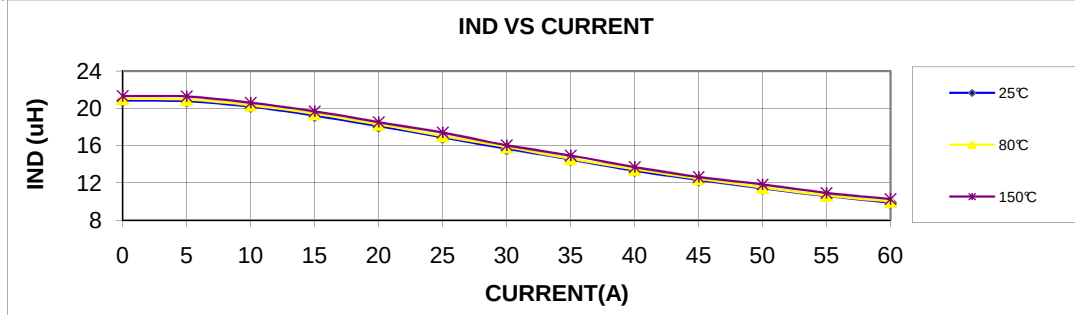
| Part Number      | INDUCTANCE                | @RATED CURRENT            | $I_{rated}$             | $I_{sat}$                    | DC Resistance |           | FIGURE |
|------------------|---------------------------|---------------------------|-------------------------|------------------------------|---------------|-----------|--------|
|                  | 100kHz, 100mV<br>(μH) TYP | 100kHz, 100mV<br>(μH) TYP | RATED<br>CURRENT<br>(A) | SATURATION<br>CURRENT<br>(A) | mΩ<br>Typ     | mΩ<br>Max |        |
| HA55-3623200LF   | 20.00                     | 14.50                     | 33.00                   | 35.0                         | 3.35          | 3.85      | 1      |
| HA55-3023115LF   | 11.50                     | 8.24                      | 39.00                   | 43.0                         | 2.30          | 2.76      | 2      |
| HA55-2223070LF   | 7.00                      | 5.33                      | 40.00                   | 48.0                         | 1.70          | 2.00      | 3      |
| HA55-3023130LF   | 13.00                     | 9.33                      | 37.00                   | 40.0                         | 2.50          | 3.25      | 4      |
| HA55L-3623220LF* | 22.00                     | 13.00                     | 34.00                   | 26.0                         | 3.35          | 3.85      | 1      |
| HA55L-3023135LF* | 13.50                     | 8.42                      | 39.00                   | 30.0                         | 2.30          | 2.76      | 2      |
| HA55L-2223088LF* | 8.83                      | 5.52                      | 41.00                   | 33.0                         | 1.70          | 2.00      | 3      |
| HA55L-3023163LF* | 16.30                     | 9.38                      | 37.00                   | 27.0                         | 2.50          | 3.25      | 4      |
| HA55L-3623400LF* | 40.00                     | 24.00                     | 26.00                   | 20.0                         | 5.70          | 6.20      | 1      |
| HA55L-4523500LF* | 50.00                     | 26.00                     | 32.00                   | 20.0                         | 7.25          | 8.35      | 5      |

- Notes :**
- (1) Inductance is measured at 100kHz, 0.1Vrms, 0Adc.
  - (2) The rated current is the approximate DC current at which  $\Delta T$  is approximately 60°C. This current is determined by soldering the unit on a typical application PCB, and then applying the current to the unit for 30 minutes.
  - (3) Isat is the saturation current at which inductance rolls off approximately 30% from its initial unbiass inductance value.

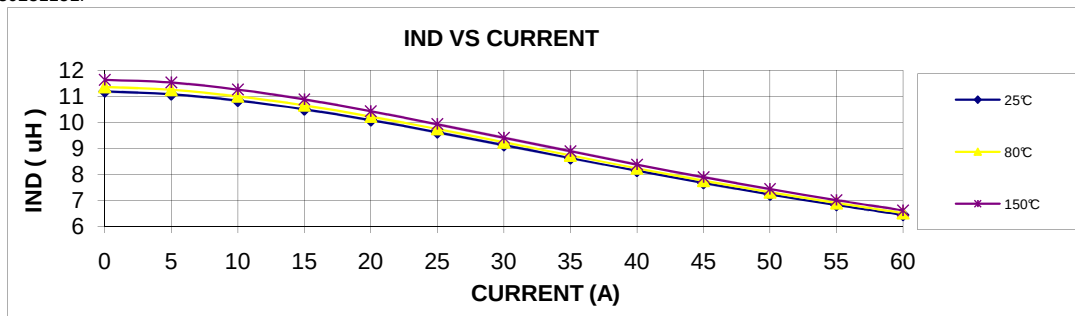
\* Low cost version

## Electrical Characteristics

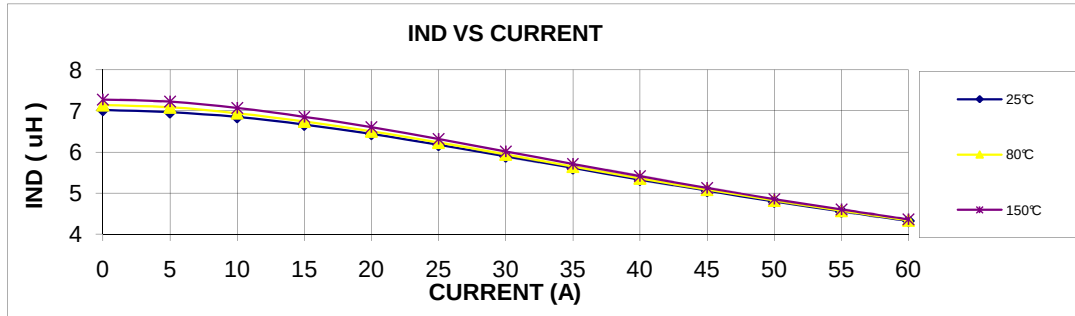
HA55-3623200LF



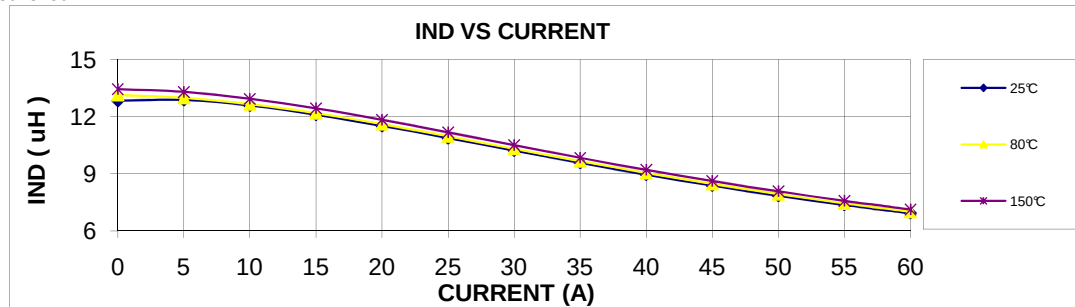
HA55-3023115LF



HA55-2223070LF

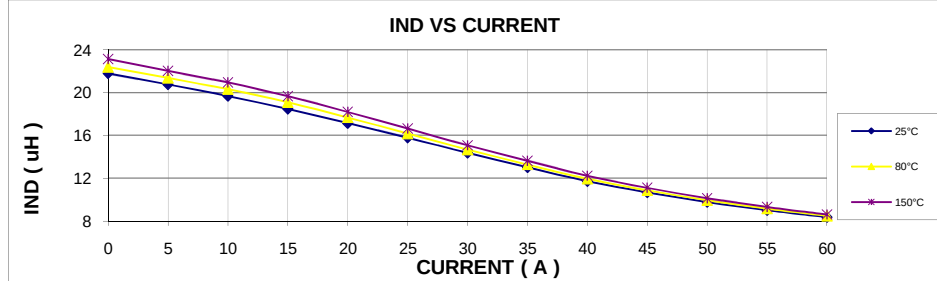


HA55-3023130LF

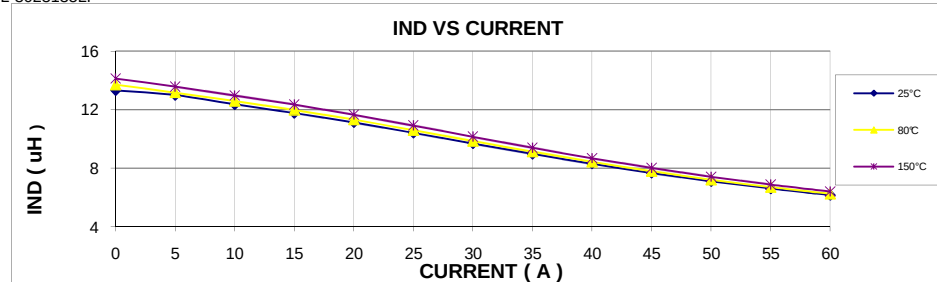


## Electrical Characteristics

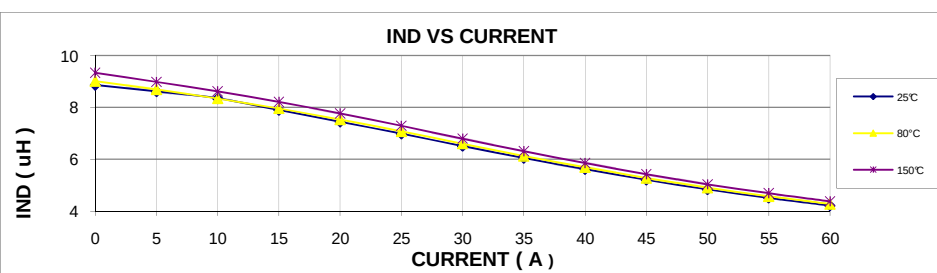
HA55L-3623220LF\*



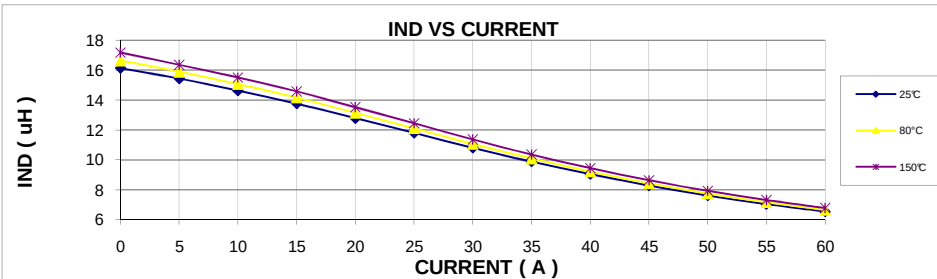
HA55L-3023135LF\*



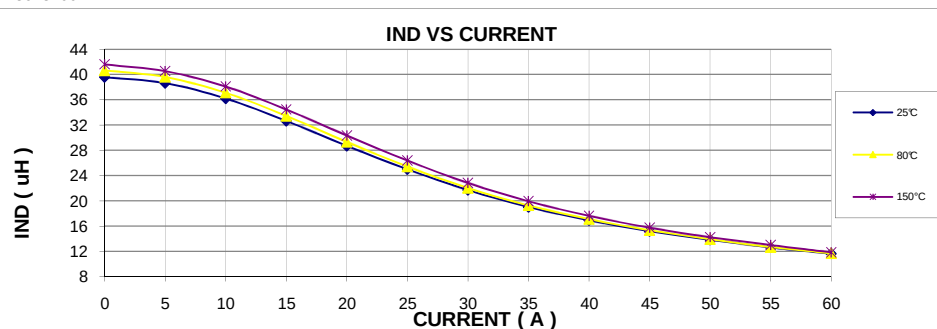
HA55L-2223088LF\*



HA55L-3023163LF\*



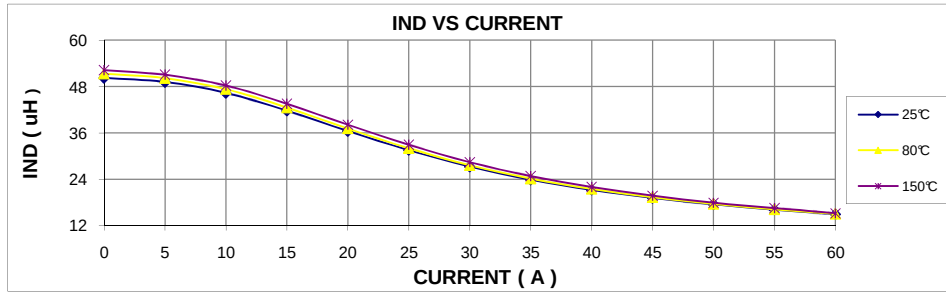
HA55L-3623400LF\*





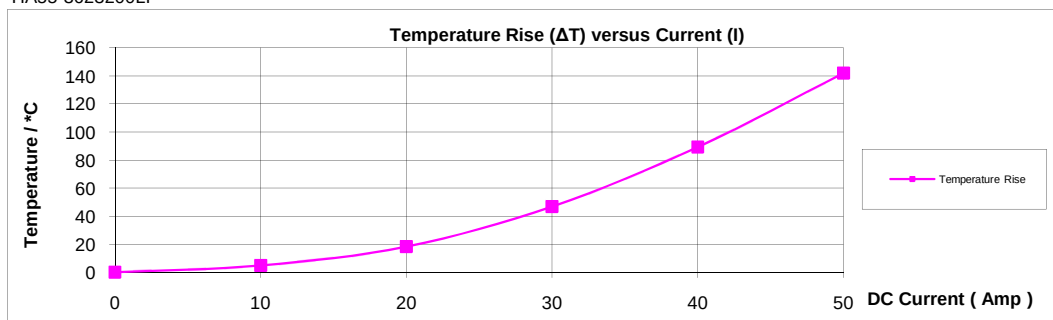
## Electrical Characteristics

HA55L-4523500LF\*

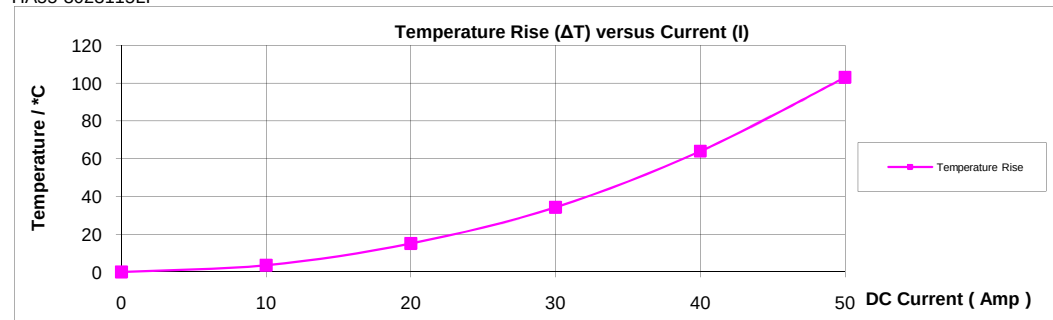


## Electrical Characteristics

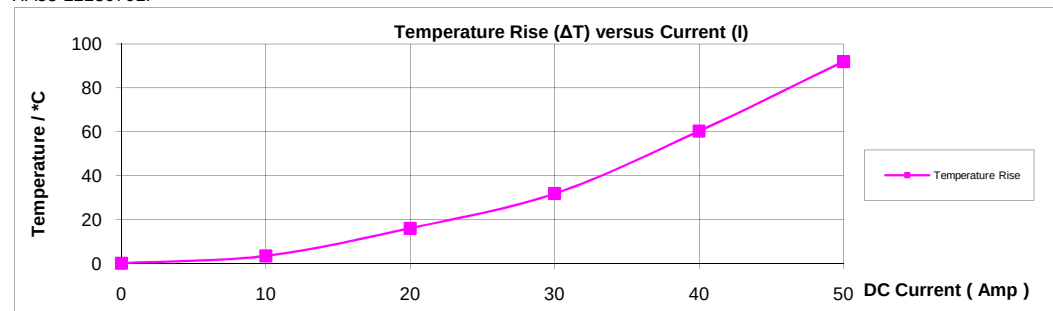
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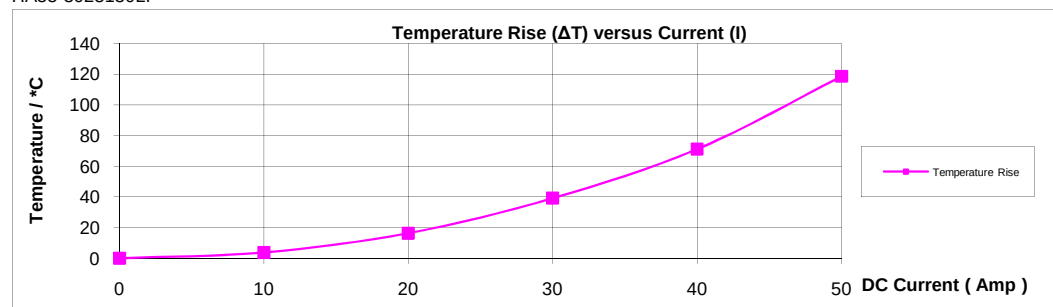
HA55-3023115LF



HA55-2223070LF

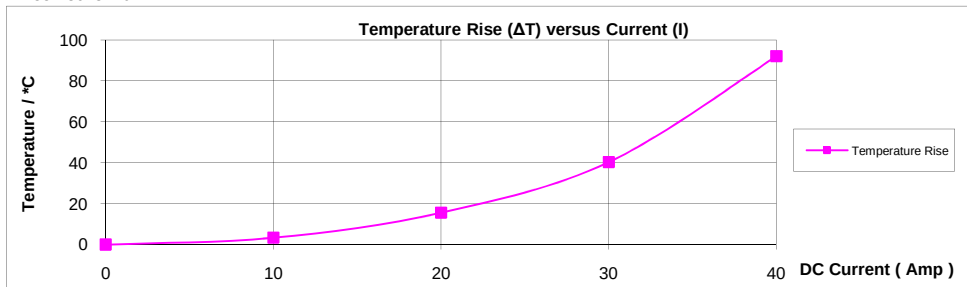


HA55-3023130LF

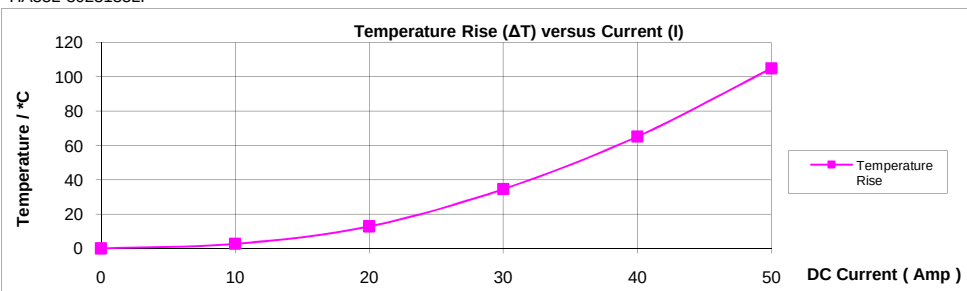


## Electrical Characteristics

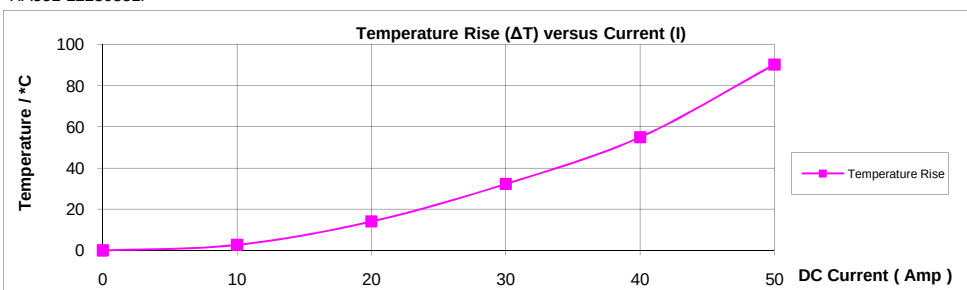
HA55L-3623220LF\*



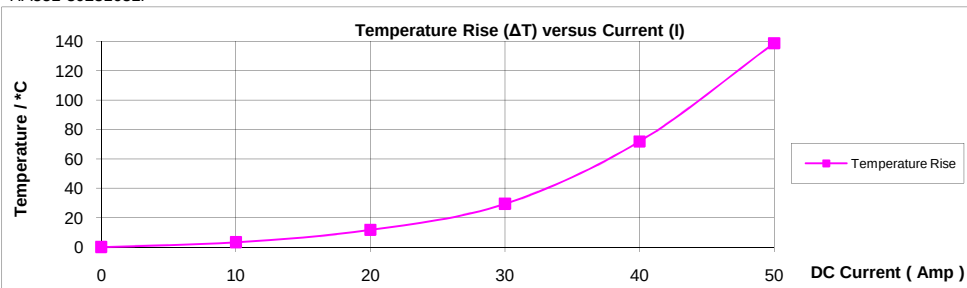
HA55L-3023135LF\*



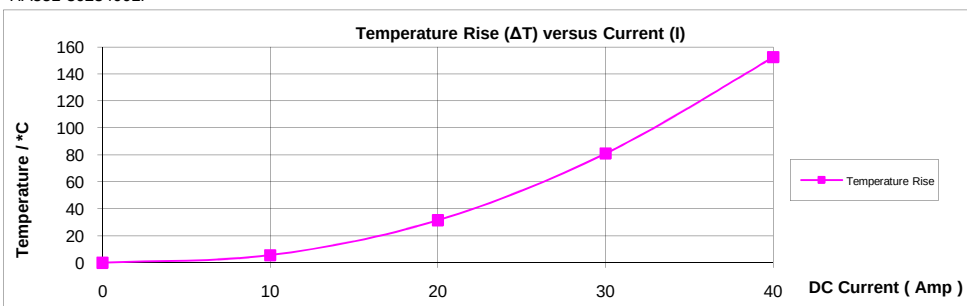
HA55L-2223088LF\*



HA55L-3023163LF\*

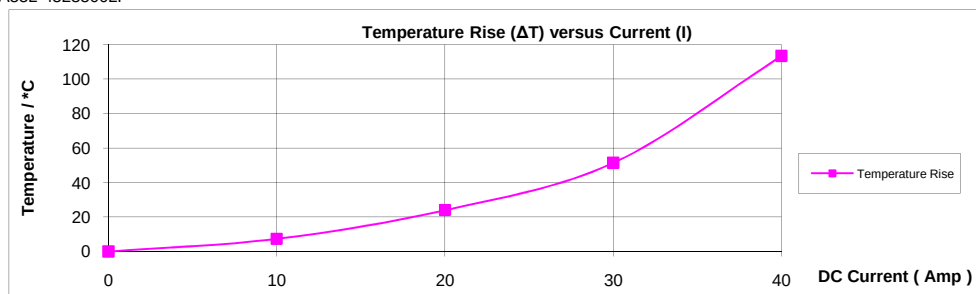


HA55L-3623400LF\*

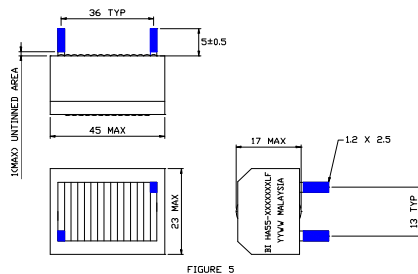
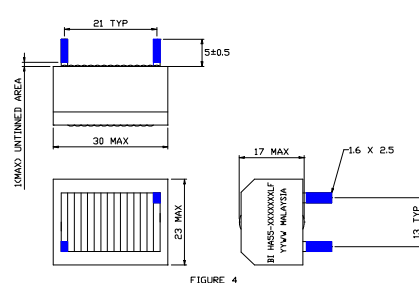
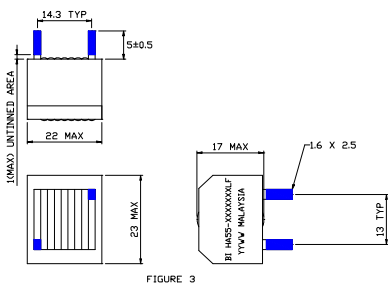
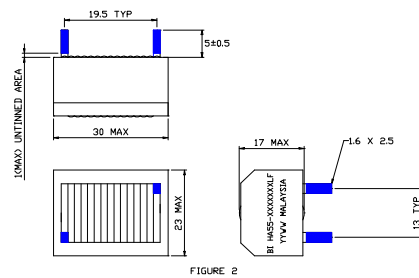
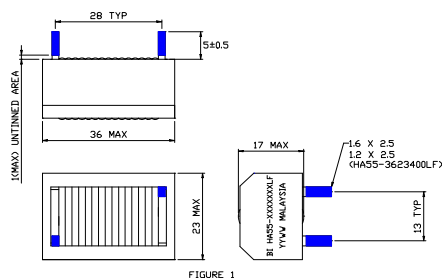


## Electrical Characteristics

HA55L-4523500LF\*



## Mechanical Outline (mm)

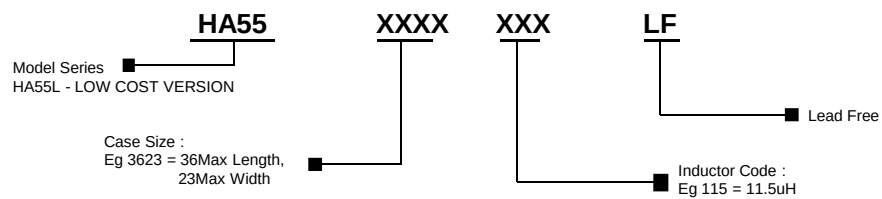


## Packaging

(Packed in compact PE foam)

- 1) 1 shipping carton 72pcs (FOR CASE 3623 & 4523)
- 2) 1 shipping carton 108pcs (FOR CASE 3023)
- 3) 1 shipping carton 144pcs (FOR CASE 2223)

## Ordering Information



We reserve the right to change specifications without prior notice.