



南充新川电子科技有限公司

New Energy Technology Ltd.



产品承认书

SPECIFICATION FOR APPROVAL

客户名称  
CUSTOMER NAME.

产品类型  
PRODUCT TYPE.

客户料号  
CUSTOMER P/N.

新川料号  
NET P/N.

文件编号  
FILE NO.

| 客户承认/CUSTOMER ACCEPTED |               |              |
|------------------------|---------------|--------------|
| 承认<br>APPROVED         | 确认<br>CHECKED | 承办<br>DESIGN |
|                        |               |              |
| 批注/REMARK              |               |              |

| 批准<br>APPROVED                                                                                                                                                                                                                          | 确认<br>CHECKED | 作成<br>DESIGN |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|
| Justin                                                                                                                                                                                                                                  | Anna          | Stephanie    |
| 公司名称: 深圳英贝迪德科技有限公司<br>业务专线: 13169928768<br>网址: <a href="http://www.embedded.com.cn">www.embedded.com.cn</a><br>邮箱: <a href="mailto:romioluo@embedded.com.cn">romioluo@embedded.com.cn</a><br>地址: 深圳市宝安区松岗街道沙江路 162 号鑫伟润高新园 1 号楼 8 楼 803 |               |              |



产品承认书/SPECIFICATION FOR APPROVAL

|                      |                         |                           |                        |                  |                 |
|----------------------|-------------------------|---------------------------|------------------------|------------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                   | 客户品名<br>CUSTOMER P/N      | -----                  | 版别<br>REV        | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power Inductors | 新川品名<br>NET P/N           | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE NO. | NET-WI-E-240304 |
| 修改记录/MODIFY RECORDS  |                         |                           |                        |                  |                 |
| 版别<br>REV            | 日期<br>DATE              | 修 改 内 容<br>MODIFY CONTENT | 拟制<br>DRAWING          | 审核<br>CHECKED    | 批准<br>APPROVED  |
| 1.0                  | 2021/7/22               | 新发行                       | Zoe                    | Joey             | Robben          |
| A0                   | 2024/3/4                | 完善承认书内容和统一文件编码和版本         | Stephanie              | Anna             | Justin          |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |
|                      |                         |                           |                        |                  |                 |

# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                            |                  |                        |                  |                 |
|----------------------|----------------------------|------------------|------------------------|------------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER | -----                  | 版别<br>REV.       | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N  | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE NO. | NET-WI-E-240304 |

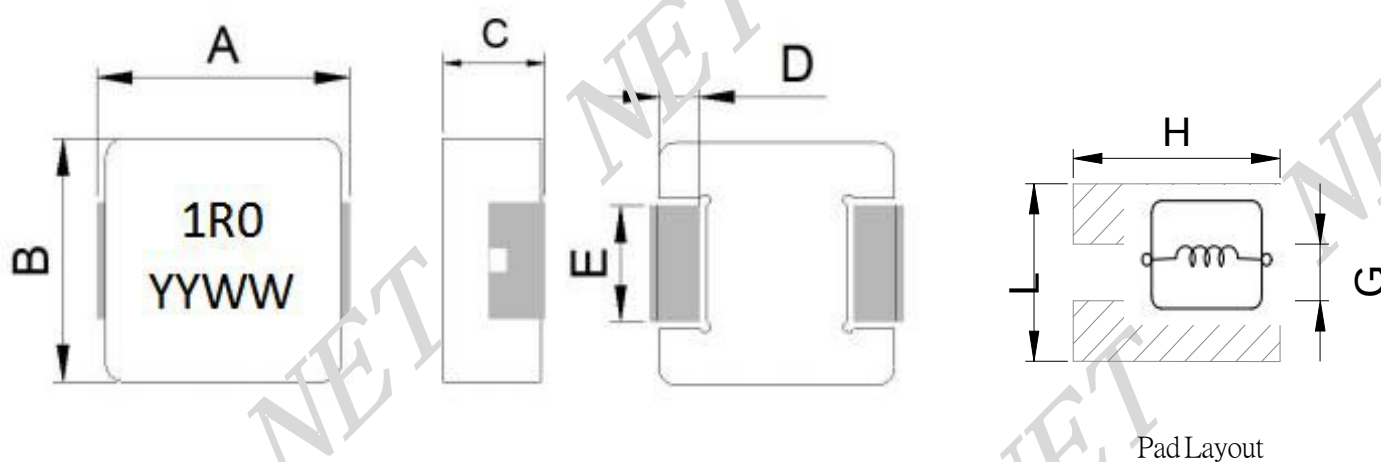
## 一、产品识别/PRODUCT IDENTIFICATION：

CMDA — 6050S — 1R0 M — 41 A

(1) (2) (3) (4) (5) (6)

- (1) Series
- (2) Dimensions
- (3) Inductance (1R5=1.5 $\mu$ H 100=10 $\mu$ H 101=100 $\mu$ H)
- (4) TOL
- (5) Marking
- (6) Packing

## 二、形状及尺寸/SHAPE AND DIMENSIONS（单位/Unit：mm）

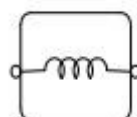


| A             | B             | C             | D             | E             | L       | G      | H       |  |  |  |
|---------------|---------------|---------------|---------------|---------------|---------|--------|---------|--|--|--|
| 7.3 $\pm$ 0.3 | 6.6 $\pm$ 0.3 | 4.8 $\pm$ 0.2 | 1.6 $\pm$ 0.3 | 3.0 $\pm$ 0.2 | 8.0 Typ | 3.7Typ | 3.4 Typ |  |  |  |

## 三、注意事项/NOTE：

1.黑色+周期

## 四、电路图/CIRCUIT DIAGRAM



# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                            |                     |                        |                 |                 |
|----------------------|----------------------------|---------------------|------------------------|-----------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER P/ | -----                  | 版别<br>REV.      | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N     | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE O. | NET-WI-E-240304 |

## 五.电气特性/ELECTRICAL CHARACTERISTIC

| Part umber          | Inductance<br>(uH) $\pm 20\%$<br>100KHz/1.0V | DCR<br>(m $\Omega$ ) Typ. | DCR<br>(m $\Omega$ ) Max. | I sat<br>(A)Typ. | I rms<br>(A)Typ. |
|---------------------|----------------------------------------------|---------------------------|---------------------------|------------------|------------------|
| CMDA-6050S-R15M-41A | 0.15                                         | 1.30                      | 1.70                      | 45.0             | 35.0             |
| CMDA-6050S-R22M-41A | 0.22                                         | 1.70                      | 2.20                      | 40.0             | 30.0             |
| CMDA-6050S-R33M-41A | 0.33                                         | 1.90                      | 2.40                      | 25.0             | 26.0             |
| CMDA-6050S-R47M-41A | 0.47                                         | 2.90                      | 3.30                      | 22.0             | 22.0             |
| CMDA-6050S-R56M-41A | 0.56                                         | 3.40                      | 3.90                      | 21.0             | 21.0             |
| CMDA-6050S-R68M-41A | 0.68                                         | 3.60                      | 4.10                      | 20.0             | 20.0             |
| CMDA-6050S-R82M-41A | 0.82                                         | 5.30                      | 5.90                      | 18.0             | 18.0             |
| CMDA-6050S-1R0M-41A | 1.0                                          | 5.60                      | 6.20                      | 16.0             | 17.0             |
| CMDA-6050S-1R2M-41A | 1.2                                          | 6.40                      | 7.10                      | 14.0             | 16.0             |
| CMDA-6050S-1R5M-41A | 1.5                                          | 6.6                       | 7.3                       | 13.0             | 15.0             |
| CMDA-6050S-1R8M-41A | 1.8                                          | 7.6                       | 9.0                       | 11.0             | 14.5             |
| CMDA-6050S-2R2M-41A | 2.2                                          | 10.0                      | 11.5                      | 10.0             | 14.0             |
| CMDA-6050S-3R3M-41A | 3.3                                          | 14.0                      | 16.2                      | 9.5              | 13.0             |
| CMDA-6050S-4R7M-41A | 4.7                                          | 20.8                      | 24.0                      | 8.8              | 11.0             |
| CMDA-6050S-5R6M-41A | 5.6                                          | 28.0                      | 33.0                      | 8.0              | 10.0             |
| CMDA-6050S-6R8M-41A | 6.8                                          | 30.0                      | 36.0                      | 7.6              | 9.0              |
| CMDA-6050S-8R2M-41A | 8.2                                          | 38.5                      | 45.0                      | 6.5              | 7.5              |
| CMDA-6050S-100M-41A | 10                                           | 44.0                      | 53.0                      | 6.0              | 7.0              |
| CMDA-6050S-120M-41A | 12                                           | 56.0                      | 68.0                      | 5.1              | 5.8              |
| CMDA-6050S-150M-41A | 15                                           | 73.0                      | 85.0                      | 4.0              | 5.0              |
| CMDA-6050S-220M-41A | 22                                           | 122.0                     | 142.0                     | 3.6              | 4.2              |
| CMDA-6050S-330M-41A | 33                                           | 142.0                     | 170.0                     | 2.3              | 3.0              |
| CMDA-6050S-470M-41A | 47                                           | 275.0                     | 320.0                     | 1.8              | 2.6              |

(1).I sat Curret: Temp.rise  $\Delta L/L0A$  30% Typ

(2).I rms Curret: Temp.rise 40°C Typ

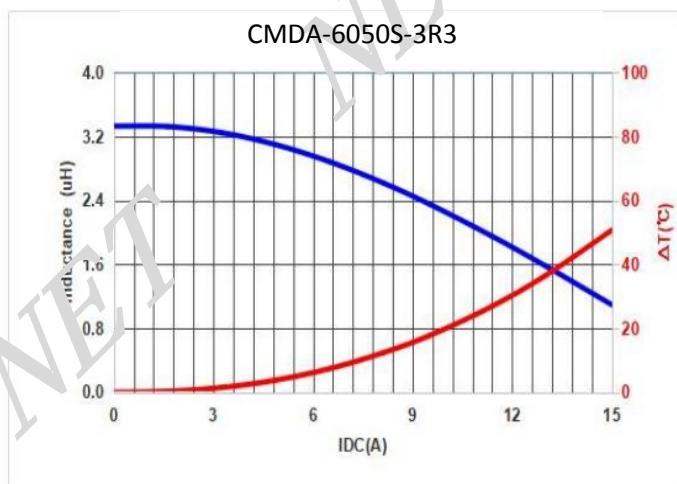
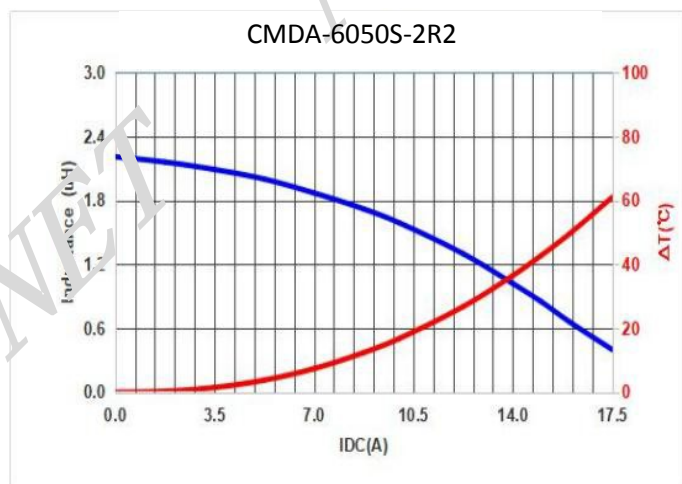
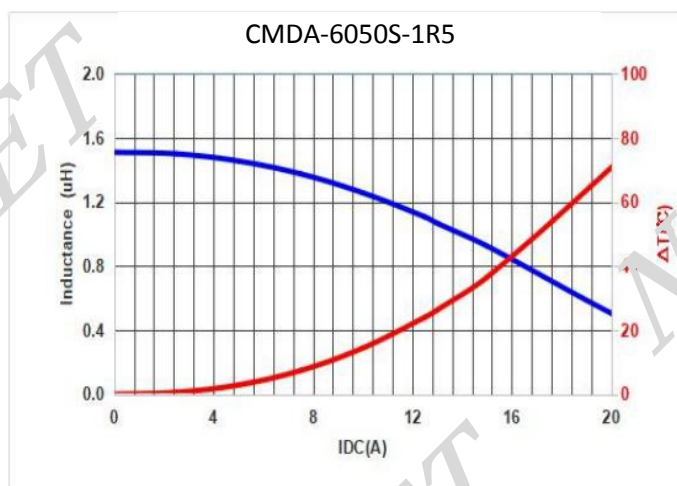
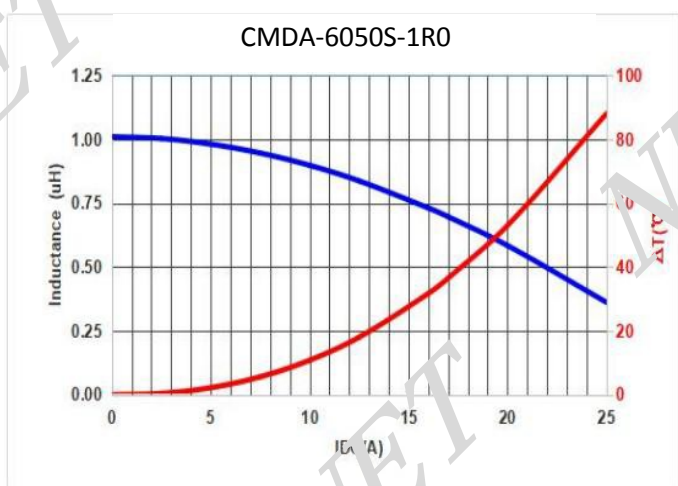
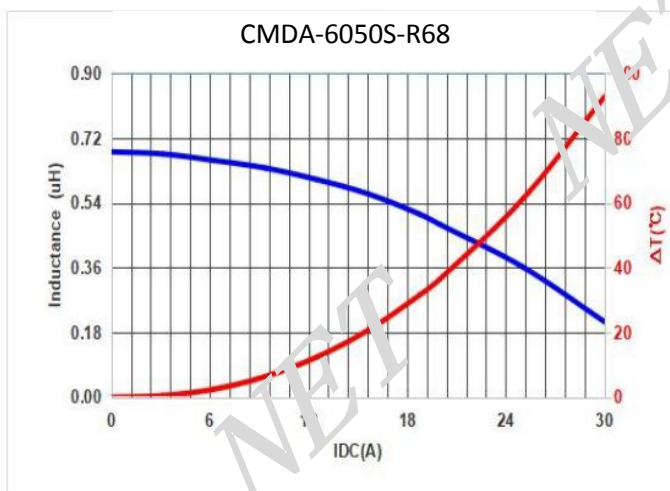
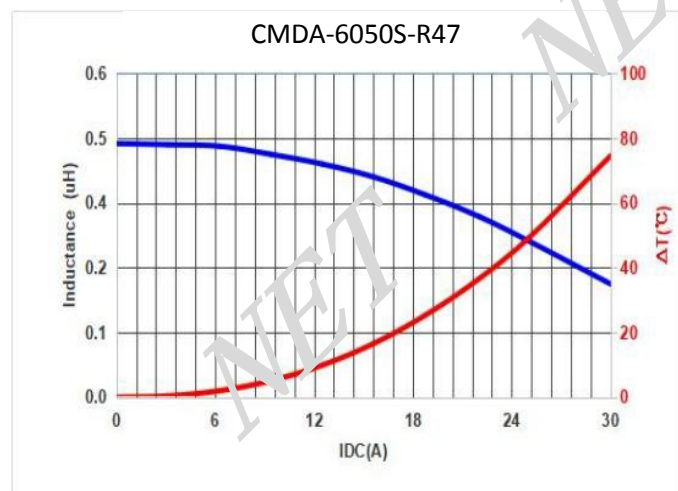
(3).Operatig Temperature: -40°C up to +105°C

(4).Storage Temperature: 15°C up to 25°C, 65% RH max.

# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                            |                     |                        |                 |                 |
|----------------------|----------------------------|---------------------|------------------------|-----------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER P/ | -----                  | 版别<br>REV.      | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N     | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE O. | NET-WI-E-240304 |

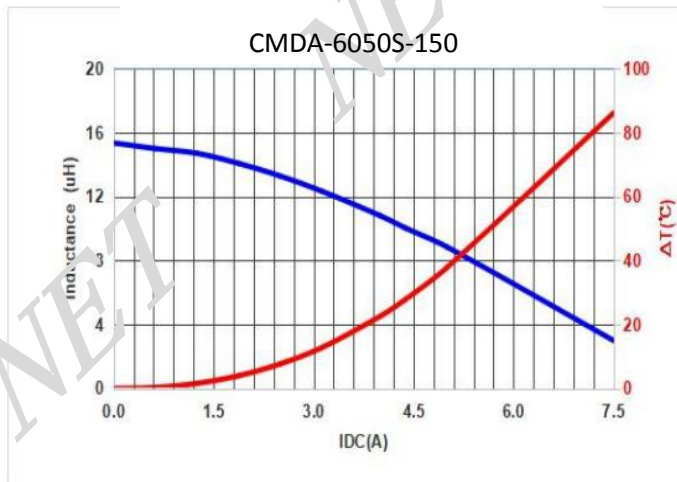
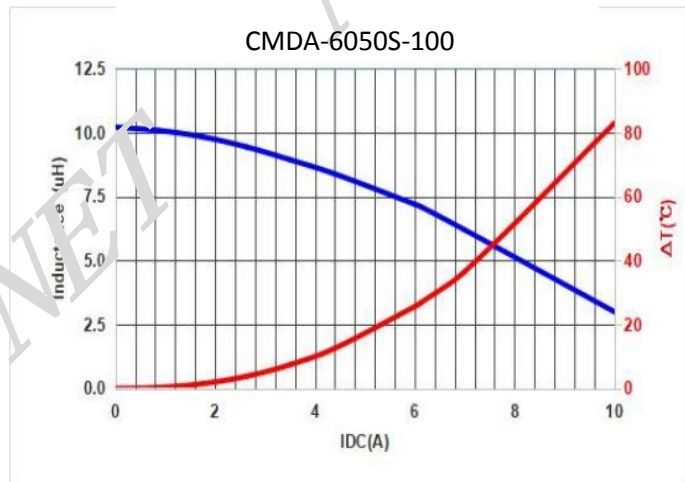
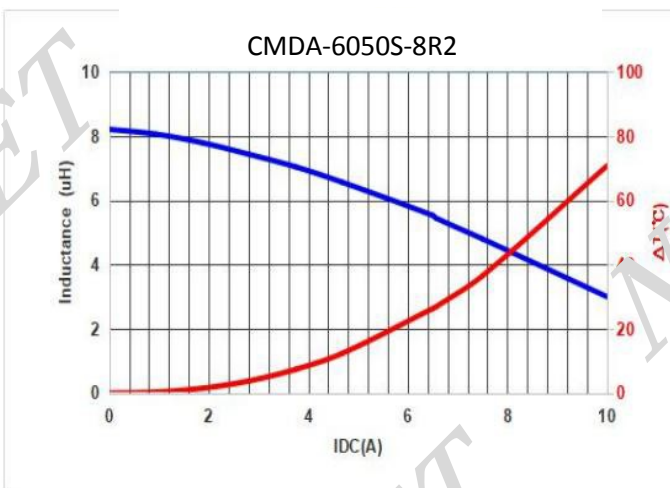
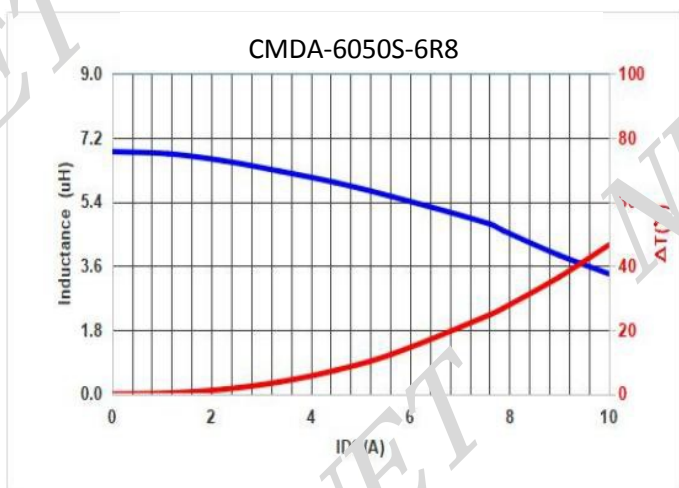
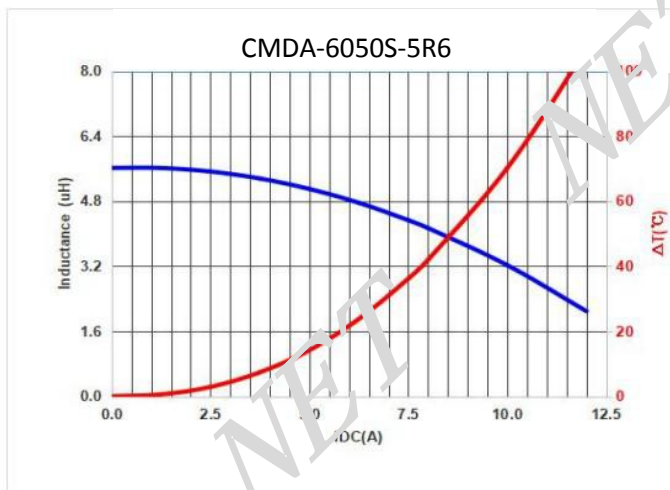
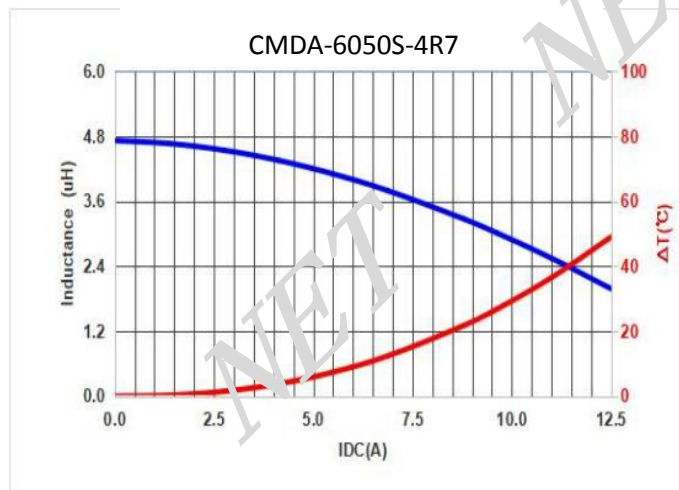
## 六.特征曲线/CHARACTERISTICS(REFERENCE)



# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                            |                     |                        |                 |                 |
|----------------------|----------------------------|---------------------|------------------------|-----------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER P/ | -----                  | 版别<br>REV.      | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N     | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE O. | NET-WI-E-240304 |

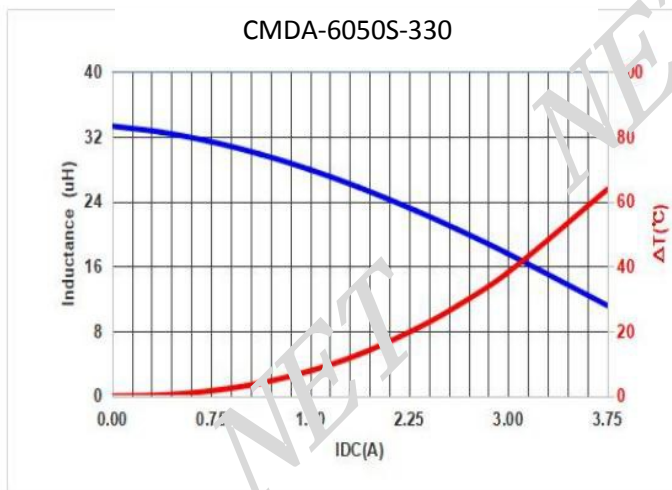
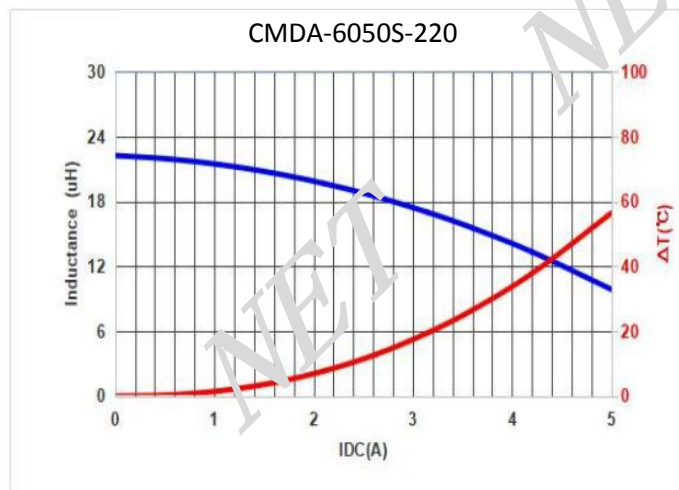
## 六.特征曲线/CHARACTERISTICS(REFERENCE)



# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                            |                     |                        |                 |                 |
|----------------------|----------------------------|---------------------|------------------------|-----------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER P/ | -----                  | 版别<br>REV.      | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N     | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE O. | NET-WI-E-240304 |

## 六.特征曲线/CHARACTERISTICS(REFERENCE)

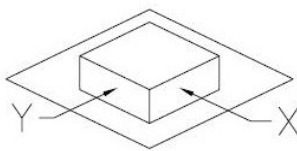




# 产品承认书/SPECIFICATION FOR APPROVAL

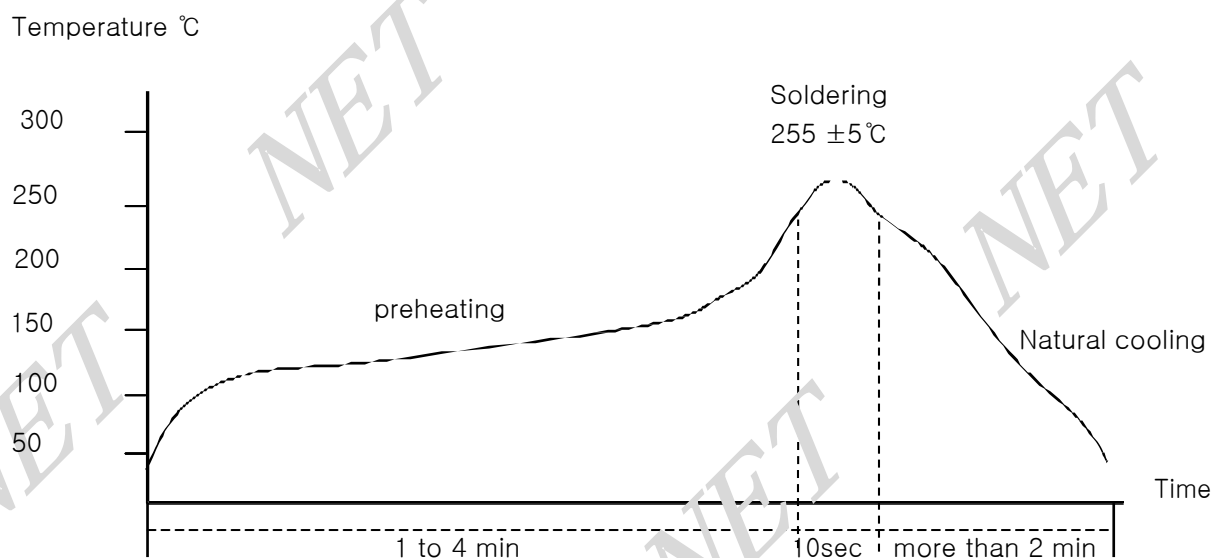
|                      |                            |                      |                        |                  |                 |
|----------------------|----------------------------|----------------------|------------------------|------------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER P/N | -----                  | 版别<br>REV.       | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N      | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE NO. | NET-WI-E-240304 |

## 七.可靠性测试/RELIABILITY TESTING

|                                                                                                        |                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature                                                                                  | - 40 to +105 °C ( Contain Heating coil )                                                                                                                                                                   |
| Appearance Inspection                                                                                  | No external defects by visual inspection                                                                                                                                                                   |
| Terminal Strength<br> | After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec.<br><br>Terminal should not peel off. ( Refer to figure at right ) |
| Heat endurance of reflow soldering                                                                     | Refer to figure                                                                                                                                                                                            |
| Insulating resistance                                                                                  | Over 100 MΩ at 100V D.C . between wire and core                                                                                                                                                            |
| Dielectric Strength                                                                                    | Apply at 0.5KV 3mA for 1 minute between wire and core                                                                                                                                                      |
| Temperature characteristics                                                                            | Inductance coefficient ( 0~2,000 ) × 10 / °C ( - 40~ + 105 °C )                                                                                                                                            |
| Humidity characteristics                                                                               | Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition                                                                      |

A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

### IR Reflow profile



Temperature and humidity . After that , no mechanical and electrical defect should be found .



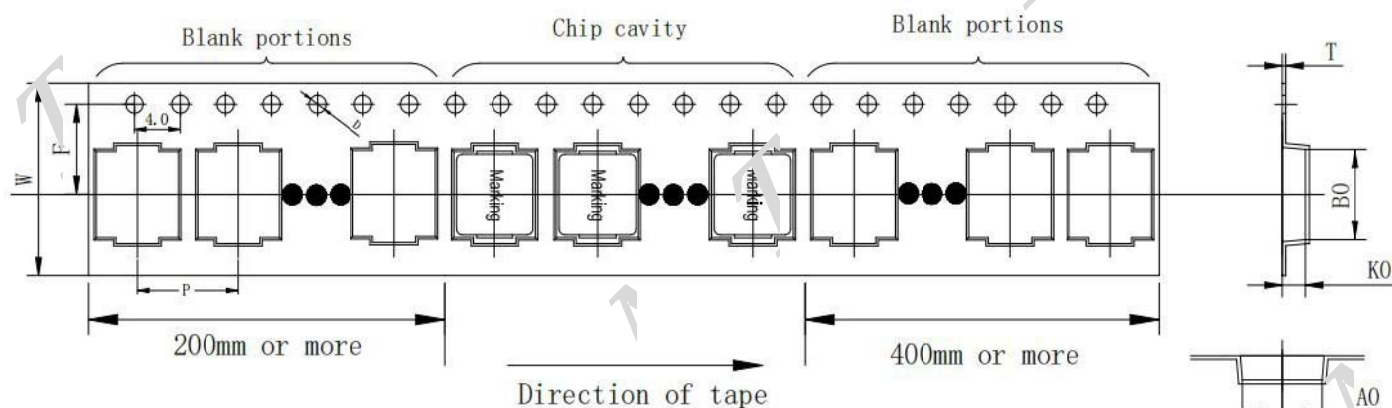
# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                         |                      |                        |                  |                 |
|----------------------|-------------------------|----------------------|------------------------|------------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                   | 客户品名<br>CUSTOMER P/N | -----                  | 版别<br>REV.       | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power Inductors | 新川品名<br>NET P/N      | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE NO. | NET-WI-E-240304 |

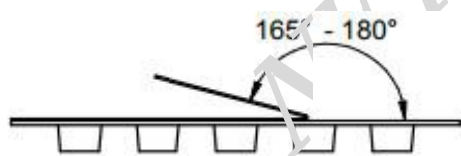
## 八.材料清单/MATERIAL LIST

| NO. | ITEM | DESCRIPTION    |
|-----|------|----------------|
| 1   | CORE | Alloy powder   |
| 2   | WIRE | Polyester Wire |
| 3   | TIN  | 107H           |
| 4   | INK  | BLACK          |
|     |      |                |

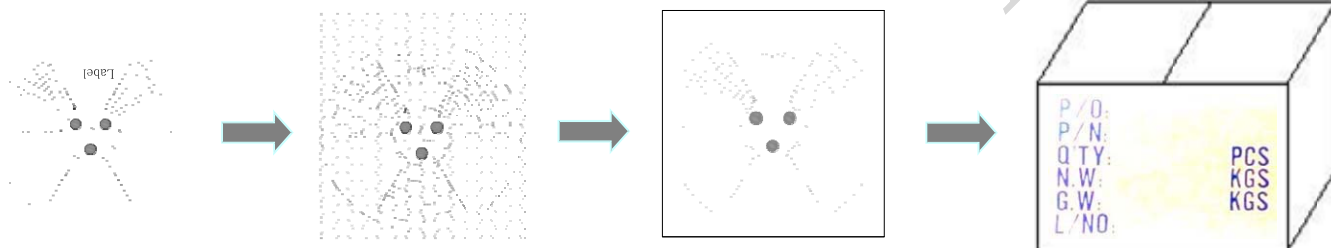
## 九.包装规格/PACKING SPECIFICATIONS



Transparent carrier and cover tape/透明载带,上带自粘或热封，预留前 40CM 后 20CM.



| Tape width | Distance | Pull-of force |
|------------|----------|---------------|
| 16 mm      | 12 mm    | 10~120g       |



轮盘：13'(直径 330mm)  
数量：800PCS/盘

PE 袋  
数量：800PCS/袋

内盒  
数量：2400PCS/盒

外箱，数量：12000PCS/箱  
不足整箱用内盒或填充物  
装满

# 产品承认书/SPECIFICATION FOR APPROVAL

|                      |                            |                      |                        |                  |                 |
|----------------------|----------------------------|----------------------|------------------------|------------------|-----------------|
| 客户名称<br>CUSTOMER     | -----                      | 客户品名<br>CUSTOMER P/N | -----                  | 版别<br>REV.       | A0              |
| 产品类型<br>PRODUCT TYPE | Molding Power<br>Inductors | 新川品名<br>NET P/N      | CMDA-6050S-41A(SERIES) | 文件编号<br>FILE NO. | NET-WI-E-240304 |

## Cautions and Warnings



### 提醒及警告

1. When the NET's products are used in occasions other than general electronic equipment, such as vehicle mounted, medical equipment, military, aerospace, etc., please be sure to contact the company's business department. In case of machine failure caused by exceeding the recommended use range of the company's products, the company will not bear relevant responsibilities (新川此系列產品推荐使用范围：影音,家電,辦公自動化,通訊,電源模塊,LED 照明,測量設備,機械工具等一般電子設備中.)

2. when the company's products are used outside the general electronic equipment, such as vehicle mounted, medical, military, aviation, aerospace and other environments, please contact the company's business department and put forward a request. Otherwise, the company will not bear any relevant responsibility for the machine failure caused by the use beyond the scope recommended by the company (當本公司產品使用在一般電子設備以外,如:車載,醫療,軍用,航空,航天等环境时,請必須聯繫本公司營業部門并提出述求, 否則超出本公司推薦的使用范围而引起的機器故障,本公司不承擔任何相關責任.)

3. Please pay attention to the storage conditions that temperature: below 15-25°C and humidity: 65% RH Max. If product is preserved for more than 6 months, the solderability of their terminals may be deteriorated. (產品在規定的溫度和濕度條件下保存:溫度: 15-25°C 以下, 濕度上限: 65% RH, 如果保存期超過半年, 端子的可焊性可能會變差.)