



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

Mini Molding Power Inductors

客户料号
CUSTOMER P/N

新川料号
NET P/N

CLBM-2016S-00A(SERIES)-H

文件编号
FILE NO.

NET-WI-E-24052201

客户承认/CUSTOMER ACCEPTED		
承认 APPROVED	确认 CHECKED	承办 DESIGN
批注/REMARK		

批准 APPROVED	确认 CHECKED	作成 DESIGN
Justin	Anna	Stephanie
公司名称：深圳英贝迪德科技有限公司 业务专线：13169928768 网址：www.embedded.com.cn 邮箱： romioluo@embedded.com.cn 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		



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客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV	A0
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修改记录/MODIFY RECORDS					
版别 REV	日期 DATE	修改内容 MODIFY CONTENT	拟制 DRAWING	审核 CHECKED	批准 APPROVED
A0	2024/5/22	新版发行	Stephanie	Anna	Justin

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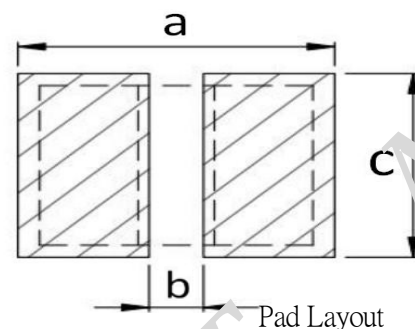
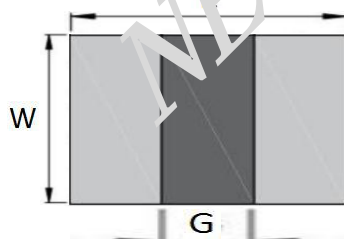
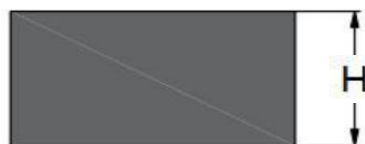
一、产品识别/PRODUCT IDENTIFICATION：

CLBM — 2016S — 1R5 M — B 08 — 00 A H

(1) (2) (3) (4) (5) (6) (7) (8) (9)

- (1) Series
- (2) Dimensions
- (3) Inductance (1R5=1.5 μ H 2R6=2.6 μ H)
- (4) TOL: M=±20% N=±30%
- (5) Coating color:B=Black
- (6) Height (08=0.8Max 10=1.0Max 12=1.2Max)
- (7) Marking
- (8) Packing
- (9) Special identification code

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

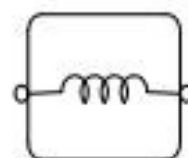


Series	L	W	G	H	a	b	c
CLMB-2016S------B08-00A-H	2.0±0.2	1.6±0.2	0.6±0.2	0.8Max	2.1Ref	0.5Ref	1.7Ref
CLMB-2016S------B10-00A-H	2.0±0.2	1.6±0.2	0.6±0.2	1.0Max	2.1Ref	0.5Ref	1.7Ref
CLMB-2016S------B12-00A-H	2.0±0.2	1.6±0.2	0.6±0.2	1.2Max	2.1Ref	0.5Ref	1.7Ref

三、注意事项/NOTE：

1.本产品不印字

四、电路图/CIRCUIT DIAGRAM



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五.电气特性/ELECTRICAL CHARACTERISTIC

Part umber	L(μH) @ 1MHz	Tol	DC Resistance (m Ω)		Rated current Irms(A)		Saturation current Isat(A)	
			Typ	Max	Typ	Max	Typ	Max
L2.0 * W1.6 * H0.8								
CLBM-2016S-R22M-B08-00A-H	0.22	±20%	14	19	6.6	5.9	6.1	5.6
CLBM-2016S-R24M-B08-00A-H	0.24	±20%	14	20	6.5	5.8	6.0	5.5
CLBM-2016S-R33M-B08-00A-H	0.33	±20%	18	24	5.5	4.8	5.8	5.3
CLBM-2016S-R47M-B08-00A-H	0.47	±20%	24	27	4.6	4.4	5.5	5.0
CLBM-2016S-R68M-B08-00A-H	0.68	±20%	39	44	3.8	3.5	4.6	4.2
CLBM-2016S-1R0M-B08-00A-H	1.00	±20%	53	60	3.6	3.3	3.3	3.1
CLBM-2016S-1R5M-B08-00A-H	1.50	±20%	73	85	3.1	2.8	3.0	2.8
CLBM-2016S-2R2M-B08-00A-H	2.20	±20%	123	140	2.2	2.0	2.5	2.3
CLBM-2016S-3R3M-B08-00A-H	3.30	±20%	200	220	1.8	1.5	2.1	1.8
CLBM-2016S-4R7M-B08-00A-H	4.70	±20%	260	290	1.6	1.4	1.7	1.5
CLBM-2016S-100M-B08-00A-H	10.00	±20%	690	800	1.0	0.9	1.0	0.9

NOTE (1).Isat Curret: Temp.rise ΔL/L0A 30% Typ

(2).Irms Curret: Temp.rise 40°C Typ

(3).Operating temp.: -55°C up to +125°C

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

(5).The temperature of electrical characteristic test is 25 °C indoor temperature

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五.电气特性/ELECTRICAL CHARACTERISTIC

Part umber L2.0 * W1.6 * H1.0	L0(μH) @ (0A) 1MHz	Tol	DC Resistance (m Ω)		Rated current Irms(A)		Saturation current Isat(A)	
			Typ	Max	Typ	Max	Typ	Max
CLBM-2016S-R10M-B10-00A-H	0.10	±20%	7	12	8.5	8.0	9.0	8.4
CLBM-2016S-R15M-B10-00A-H	0.15	±20%	8	14	7.6	7.0	8.7	8.0
CLBM-2016S-R22M-B10-00A-H	0.22	±20%	11	18	6.9	6.3	8.2	7.5
CLBM-2016S-R24M-B10-00A-H	0.24	±20%	12	19	6.8	6.2	8.0	7.4
CLBM-2016S-R33M-B10-00A-H	0.33	±20%	17	22	5.7	5.3	7.0	6.5
CLBM-2016S-R47M-B10-00A-H	0.47	±20%	22	25	5.5	5.0	6.3	5.5
CLBM-2016S-R68M-B10-00A-H	0.68	±20%	25	32	4.6	4.3	5.2	4.7
CLBM-2016S-1R0M-B10-00A-H	1.00	±20%	35	43	4.5	4.1	4.6	4.2
CLBM-2016S-1R5M-B10-00A-H	1.50	±20%	80	100	2.6	2.3	3.2	2.9
CLBM-2016S-2R2M-B10-00A-H	2.20	±20%	120	130	2.5	2.1	3.0	2.8
CLBM-2016S-3R3M-B10-00A-H	3.30	±20%	140	170	1.7	1.5	2.3	2.0
CLBM-2016S-4R7M-B10-00A-H	4.70	±20%	190	220	1.6	1.4	2.0	1.8
CLBM-2016S-100M-B10-00A-H	10.00	±20%	483	580	1.0	0.7	1.4	1.1

NOTE (1).Isat Curret: Temp.rise ΔL/L0A 30% Typ

(2).Irms Curret: Temp.rise 40°C Typ

(3).Operating temp.: -55°C up to +125°C

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

(5).The temperature of electrical characteristic test is 25 °C indoor temperature

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Part umber	L(μH) @ 1MHz	Tol	DC Resistance (m Ω)		Rated current Irms(A)		Saturation current Isat(A)	
			Typ	Max	Typ	Max	Typ	Max
L2.0 * W1.6 * H1.2								
CLBM-2016S-R10M-B12-00A-H	0.10	±20%	4.0	6	12.0	10.0	13.0	11.5
CLBM-2016S-R15M-B12-00A-H	0.15	±20%	7.5	10	10.0	9.0	12.0	10.5
CLBM-2016S-R24M-B12-00A-H	0.24	±20%	9.0	11	9.1	8.6	9.2	8.7
CLBM-2016S-R33M-B12-00A-H	0.33	±20%	10	15	7.7	7.2	7.8	7.3
CLBM-2016S-R47M-B12-00A-H	0.47	±20%	13	17	6.7	6.0	6.7	6.0
CLBM-2016S-R68M-B12-00A-H	0.68	±20%	19	23	6.0	5.3	6.0	5.3
CLBM-2016S-1R0M-B12-00A-H	1.00	±20%	30	36	5.0	4.5	5.0	4.5
CLBM-2016S-1R5M-B12-00A-H	1.50	±20%	40	50	4.0	3.5	4.0	3.5
CLBM-2016S-2R2M-B12-00A-H	2.20	±20%	77	90	3.3	2.9	3.1	2.7
CLBM-2016S-3R3M-B12-00A-H	3.30	±20%	135	165	2.4	2.0	2.7	2.3

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

(2).Irms Curret: Temp.rise 40°C Typ

(3).Operating temp.: -55°C up to +125°C

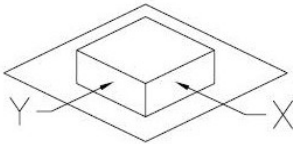
(4).Storage Temperature: 15°C up to +25°C, 65% RH max.

(5).The temperature of electrical characteristic test is 25 °C indoor temperature

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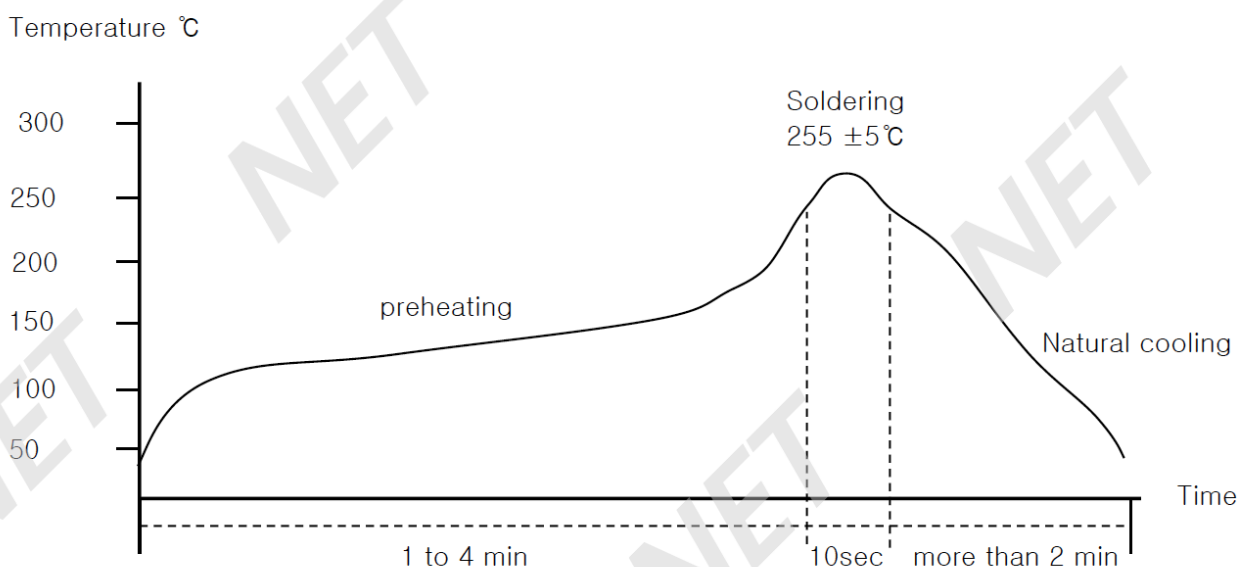
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六.可靠性测试/RELIABILITY TESTING

Operating Temperature	- 55 to +125 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After solde of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. 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 (- 55~ + 125 °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 .

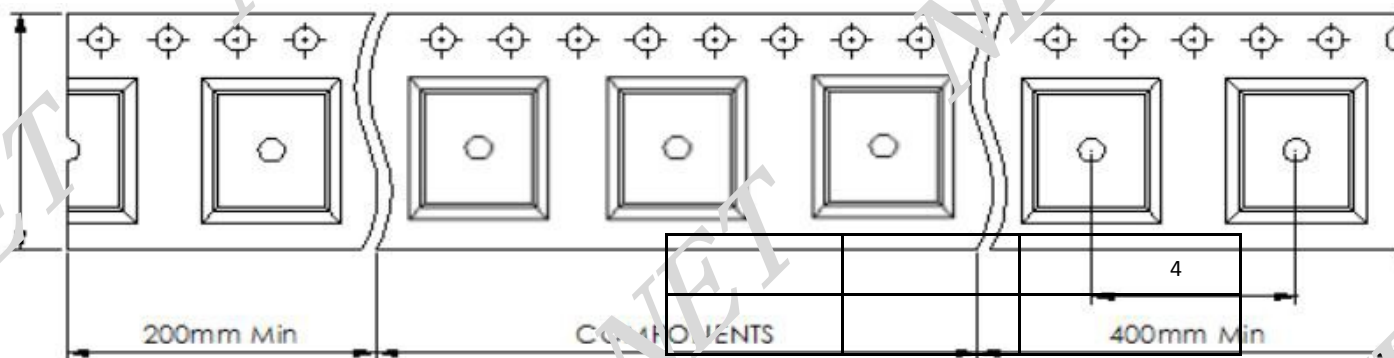
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七.材料清单/MATERIAL LIST

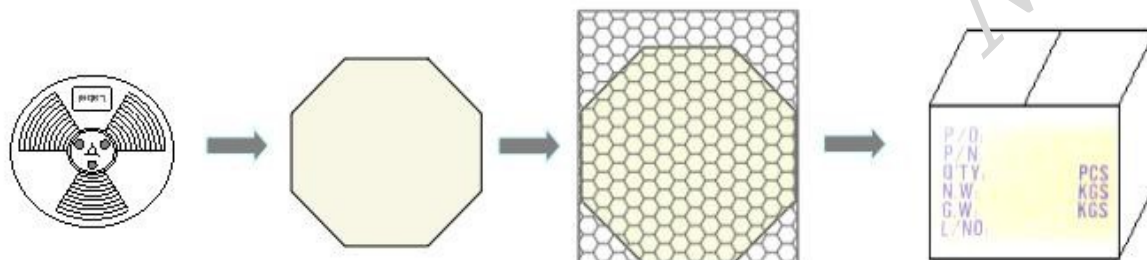
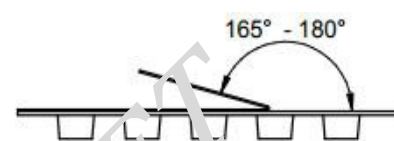
NO.	ITEM	DESCRIPTION
1	CORE	Alloy powder
2	WIRE	Polyester Wire
3	TIN	107H

八.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	Dimension's Reel	Qty/Reel
8	4	10~120g	7 寸	3k



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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.)