



SPECIFICATION FOR APPROVAL



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KEY08H2G02

OPEN FRAME TRANSFORMER

TRANSFORMER

KEY08H2G02

Manufacturer Part No.: KS251477



Customer Name KTEC

Customer Part NO.

Project Modify List

Item	Content	Rev.	Date	Prepared By	Checked By
1	First REV.	A	2025-11-12	Liao xiaoyan	Zong guoqing

Manufacturer

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Approved Signatures

APPROVED BY

CHECKED BY

TESTED BY

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1. ELECTRICAL CHARACTERISTICS

1.1 Primary input rating:

AC 120/208/240/480 VAC 50/60 Hz

1.2 Secondary output:

WINDING	SECONDARY OUTPUT	
INPUT VOLTAGE	LOADING(VL)	NO LOAD(VO)
120 VAC 50/60Hz (BLK-WHT)	24V±5% @3.13A	26.2V±5%
208 VAC 50/60Hz (BLK-RED)	24V±5% @3.13A	26.2V±5%
240 VAC 50/60Hz (BLK-ORG)	24V±5% @3.13A	26.2V±5%
480 VAC 50/60Hz (BLK-BLK/RED)	24V±5% @3.13A	26.2V±5%

1.3 Chemical Substance Control Laws

ROHS

1.4 Primary no-load current (IO):

0.35 A rms max, at input 120/208/240/480 VAC 50/60 Hz.

1.5 Core loss (CL):

10 watts maximum, at input 120/208/240/480 VAC 50/60 Hz, no-load

1.6 DC resistance (DCR), measured at 25°C :

BLK-WHT: / Ω maximum; BLK-RED: / Ω maximum; BLK-ORG: / Ω maximum;

BLK-BLK/RED: / Ω maximum; BLU-YEL: / Ω maximum;

1.7 Dielectric strength test (Hi-pot):

AC 2500 V for 60 seconds between primary to secondary;

AC 1960 V for 60 seconds between primary to core;

AC 500 V for 60 seconds between secondary to core; and cutoff current 1 Ma max, without breakdown.

At an alternative potentials, increasing 20% of voltage to be applied for one second in mass production.

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1.8 Insulation resistance (IR):

By 500 VDC tester, 100 Mohms minimum between primary and secondary.

1.9 Induced voltage:

All secondary open, primary should withstand AC 960 V 400 Hz for 18 seconds without breakdown.

1.10 Humidity test :

The unit shall be stored at a temperature of 40 ± 2 °C and a humidity 90-95%R.H. for 48 hours.

Then stored at a standard atmospheric conditions for 30 minutes for recovery.

The results should meet item B-6 requirements, and its insulation resistance shall be 10 M ohms minimum.

1.11 Temperature rise(ΔT):

95°C max for primary coil ,at 25°C ambient, in open air at 120/208/240/480 VAC 50/60 Hz input and rated load.

2. MECHANICAL CHARACTERISTICS:

2.1 Pull strength test:

Pin or Lead wires should withstand pull force of 5 lbs for 60 seconds, no damage occurred.

2.2 Appearance:

Damage and rust are not permitted.

2.3 Dimension:

As mechanical drawing.

3. SAFETY STANDARD:

Meet UL/CUL 5085

4. INSULATION SYSTEM:

Class B-TaiHu 130-TM(Table IV)

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5. ENVIRONMENTAL CONDITION:

Normal operating temperature range: $0^{\circ}\text{C}\sim+40^{\circ}\text{C}$

Normal operating humidity range: $0\sim95\%\text{R.H}$

Storage temperature range: $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}.$

6. CORE LAMINATION METHOD:

Submitted samples: Argon welding or Interleaving

Products of mass production: Argon welding or Interleaving

7. INSPECTION ON MASS PRODUCTION:

7.1 The inspection items for 100% of the products:

- ◆ Primary no-load current (Io)
- ◆ Core loss (CL)
- ◆ Output no-load voltage (VO)
- ◆ Appearance
- ◆ Dielectric strength test (Hi-pot)
- ◆ Mechanical Dimensions

7.2 H-2. Sampling test items:

- ◆ Insulation resistance
- ◆ Induced voltage
- ◆ DC resistance
- ◆ Pull strength test
- ◆ Output load voltage (VL)

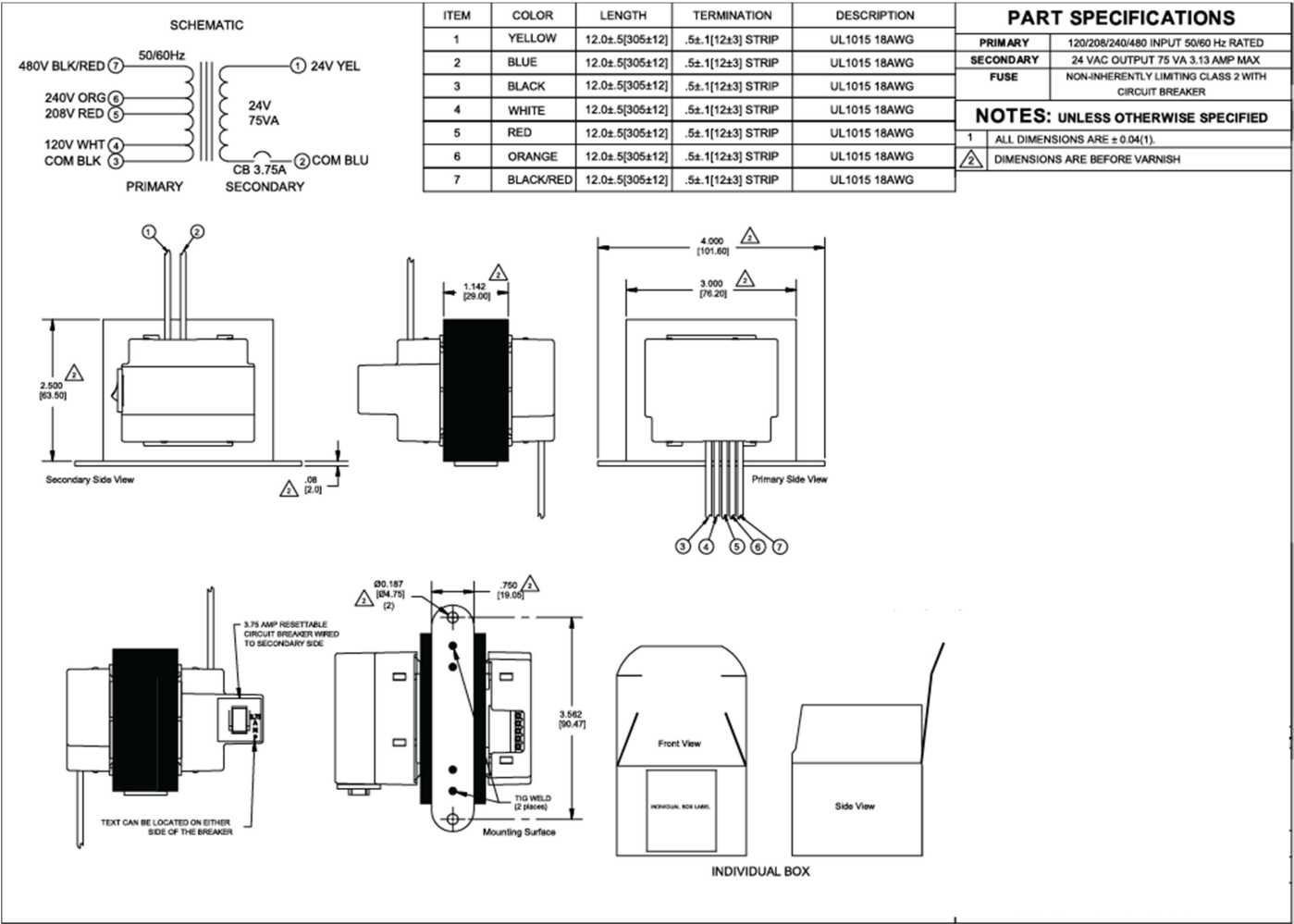
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8. APPEARANCE DRAWING: (Unit: mm)



NOTE: 1. ROHS

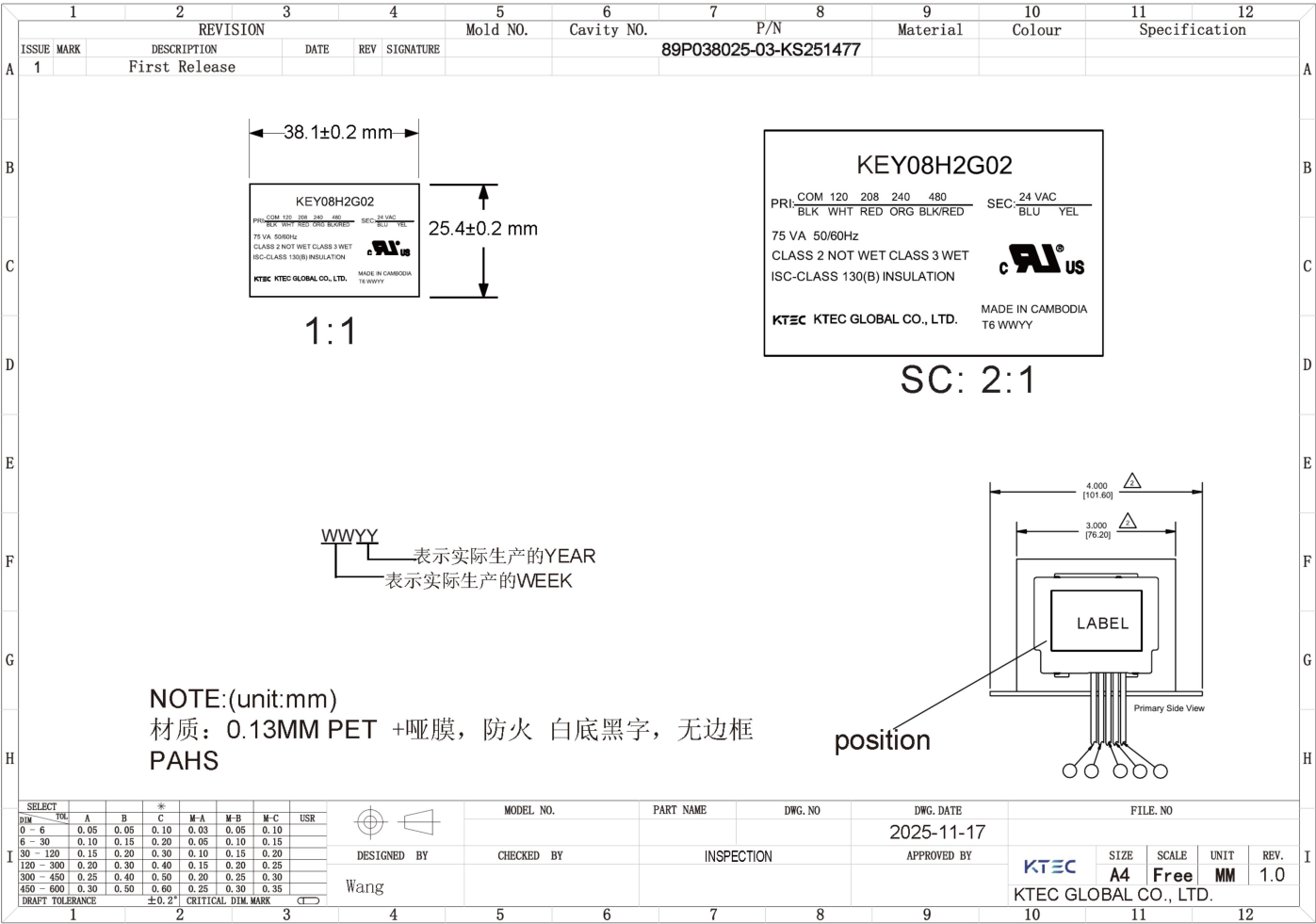
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9. TRANSFORMER LABEL



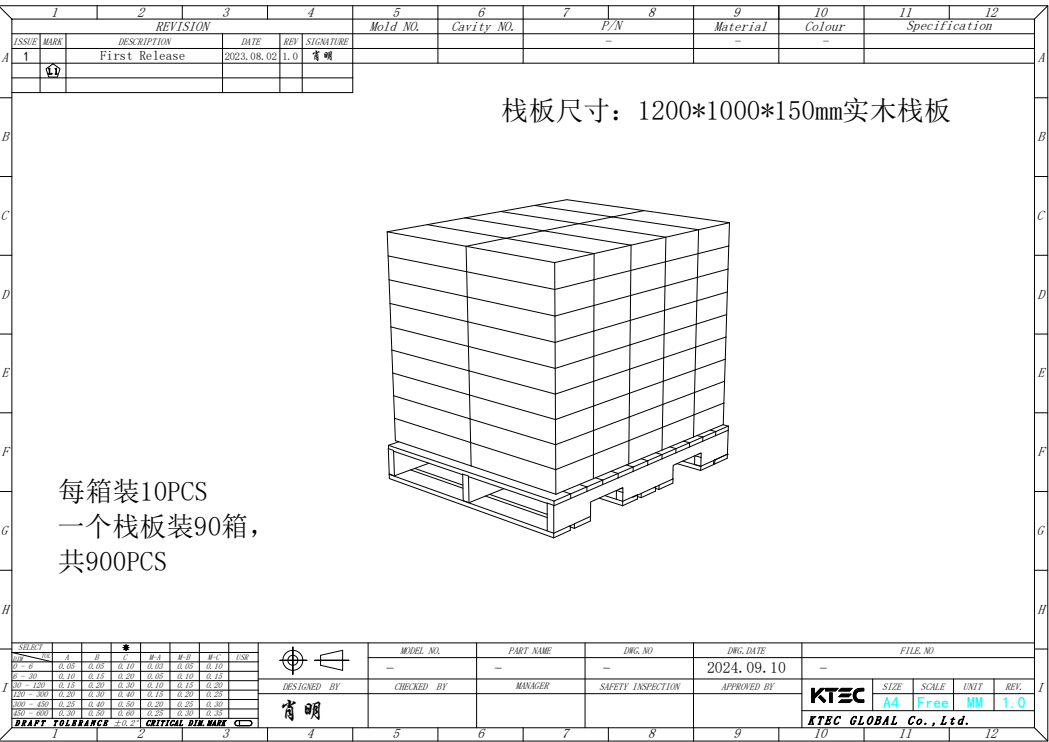
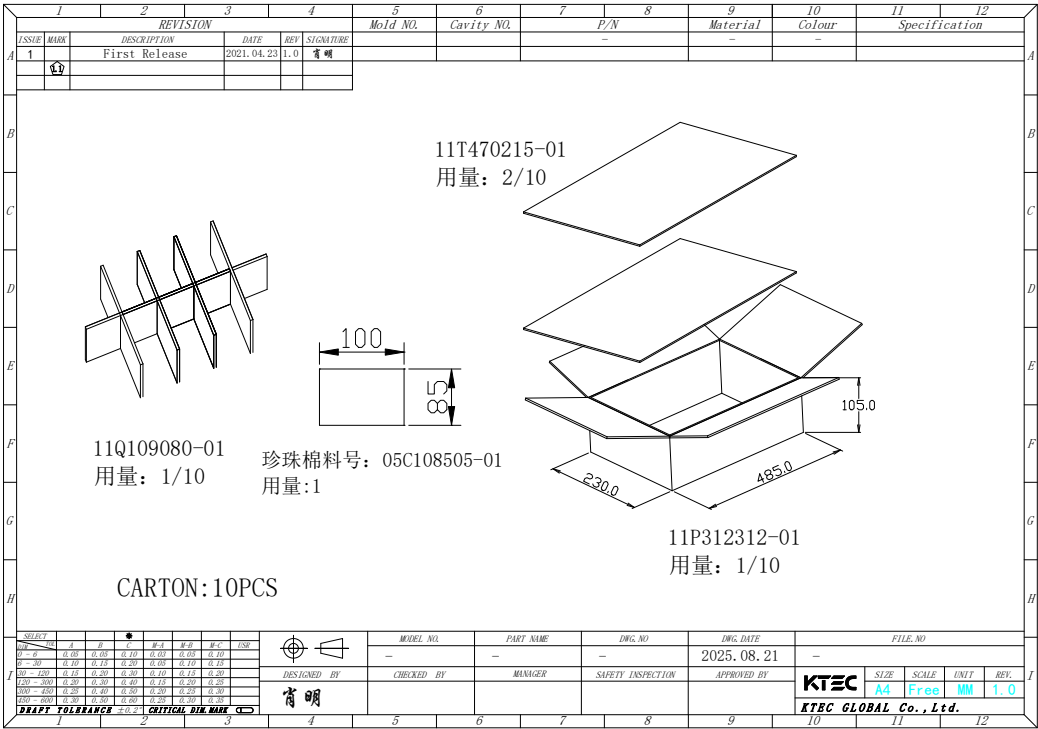
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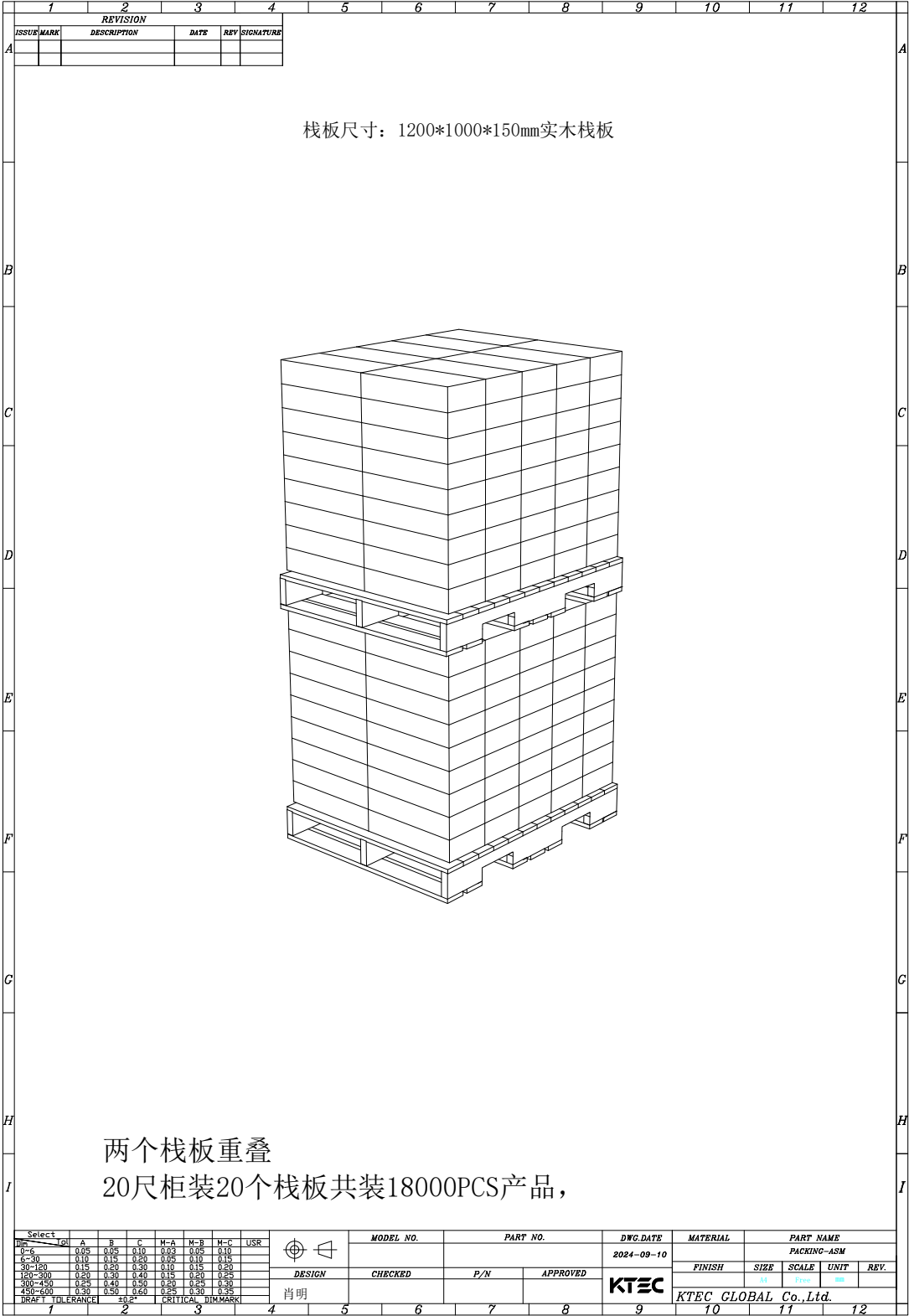
10. PACKING: (UNIT: MM)



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11. MASTER BOX LABEL

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REVISION				Mold NO.	Cavity NO.	P/N		Material	Colour	Specification																																																																																													
ISSUE	MARK	DESCRIPTION	DATE	REV	SIGNATURE	01P101050-03-KS251477																																																																																																	
A	1	First Release																																																																																																					
MASTER BOX LABEL																																																																																																							
101.6±0.2 mm KEY08H2G02 QTY-XX KTEC KTEC GLOBAL CO.,LTD. 50.8±0.2 mm 实际装箱数量 1:1																																																																																																							
Note (unit:mm): 1. 材質: 銅板紙(背面背膠)+啞膜 T=0.11±0.01mm. 2. 印刷: 白底黑字(无边框). 字体: Arial 3. RoHS compliant indication. 来料必须做粘性高低温测试, 测试条件: 高温40度, 低温-5度 4小时, 不会产生气泡或翘起, 印刷必须清晰不得有断线, 模糊不清等不良现象 (外箱侧唛右上角位置): 粘贴位置如图所示																																																																																																							
<table><tr><td>SELECT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>0 - 6</td><td>0.05</td><td>0.05</td><td>0.10</td><td>0.03</td><td>0.05</td><td>0.10</td><td></td></tr><tr><td>6 - 30</td><td>0.10</td><td>0.15</td><td>0.20</td><td>0.05</td><td>0.10</td><td>0.15</td><td></td></tr><tr><td>30 - 120</td><td>0.15</td><td>0.20</td><td>0.30</td><td>0.10</td><td>0.15</td><td>0.20</td><td></td></tr><tr><td>120 - 300</td><td>0.20</td><td>0.30</td><td>0.40</td><td>0.15</td><td>0.20</td><td>0.25</td><td></td></tr><tr><td>300 - 450</td><td>0.25</td><td>0.40</td><td>0.50</td><td>0.20</td><td>0.25</td><td>0.30</td><td></td></tr><tr><td>450 - 600</td><td>0.30</td><td>0.50</td><td>0.60</td><td>0.25</td><td>0.30</td><td>0.35</td><td></td></tr><tr><td>DRAFT TOLERANCE</td><td colspan="2">±0.2*</td><td colspan="5">CRITICAL DIM. MARK</td></tr></table>				SELECT								0 - 6	0.05	0.05	0.10	0.03	0.05	0.10		6 - 30	0.10	0.15	0.20	0.05	0.10	0.15		30 - 120	0.15	0.20	0.30	0.10	0.15	0.20		120 - 300	0.20	0.30	0.40	0.15	0.20	0.25		300 - 450	0.25	0.40	0.50	0.20	0.25	0.30		450 - 600	0.30	0.50	0.60	0.25	0.30	0.35		DRAFT TOLERANCE	±0.2*		CRITICAL DIM. MARK					<table><tr><td>MODEL NO.</td><td>PART NAME</td><td>DWG. NO</td><td>DWG. DATE</td><td>FILE NO</td></tr><tr><td></td><td></td><td></td><td>2025-11-17</td><td></td></tr><tr><td>DESIGNED BY</td><td>CHECKED BY</td><td>INSPECTION</td><td>APPROVED BY</td><td></td></tr><tr><td>Wang</td><td></td><td></td><td></td><td></td></tr></table>				MODEL NO.	PART NAME	DWG. NO	DWG. DATE	FILE NO				2025-11-17		DESIGNED BY	CHECKED BY	INSPECTION	APPROVED BY		Wang					<table><tr><td>SIZE</td><td>SCALE</td><td>UNIT</td><td>REV.</td></tr><tr><td>A4</td><td>Free</td><td>MM</td><td>1.0</td></tr></table> KTEC GLOBAL CO., LTD.				SIZE	SCALE	UNIT	REV.	A4	Free	MM	1.0
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