



SPECIFICATION FOR APPROVAL



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KE-2407ZZ07

OPEN FRAME TRANSFORMER

Customer Name_____ **KTEC**

Customer Part NO. _____

Project Modify List

[illegible]

Manufacturer

SALES	QE	APPROVED BY	MADE BY
TAI	徐海鑫	贺洪明	冯朵朵

Approved Signatures

APPROVED BY

CHECKED BY

TESTED BY

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TRANSFORMER

KE-24Q7ZZ07

Manufacturer Part No.: KS251480



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1. ELECTRICAL CHARACTERISTICS

1.1 Primary input rating:

AC 120/240/277/480VAC 50/60 Hz

1.2 Secondary output:

WINDING	SECONDARY OUTPUT	
INPUT VOLTAGE	LOADING(VL)	NO LOAD(VO)
120 VAC 50/60Hz	24V±5% @2.08A	27.1V±5%
240 VAC 50/60Hz	24V±5% @2.08A	27.1V±5%
277 VAC 50/60Hz	24V±5% @2.08A	27.1V±5%
480 VAC 50/60Hz	24V±5% @2.08A	27.1V±5%

1.3 Chemical Substance Control Laws

ROHS

1.4 Primary no-load current (IO):

0.3 A rms max, at input 120/240/277/480VAC 50/60 Hz.

1.5 Core loss (CL):

5.5 watts maximum, at input 120/240/277/480 VAC 60 Hz, no-load

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

P: COM -120Vac: / Ω maximum; COM-240Vac : / Ω maximum;
COM -277Vac: / Ω maximum; COM-480Vac : / Ω maximum;
S: 24Vac: / Ω maximum

1.7 Dielectric strength test (Hi-pot):

AC 2500 V for 60 seconds between primary to secondary;

AC 2000 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 120/240/277/480VAC 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)

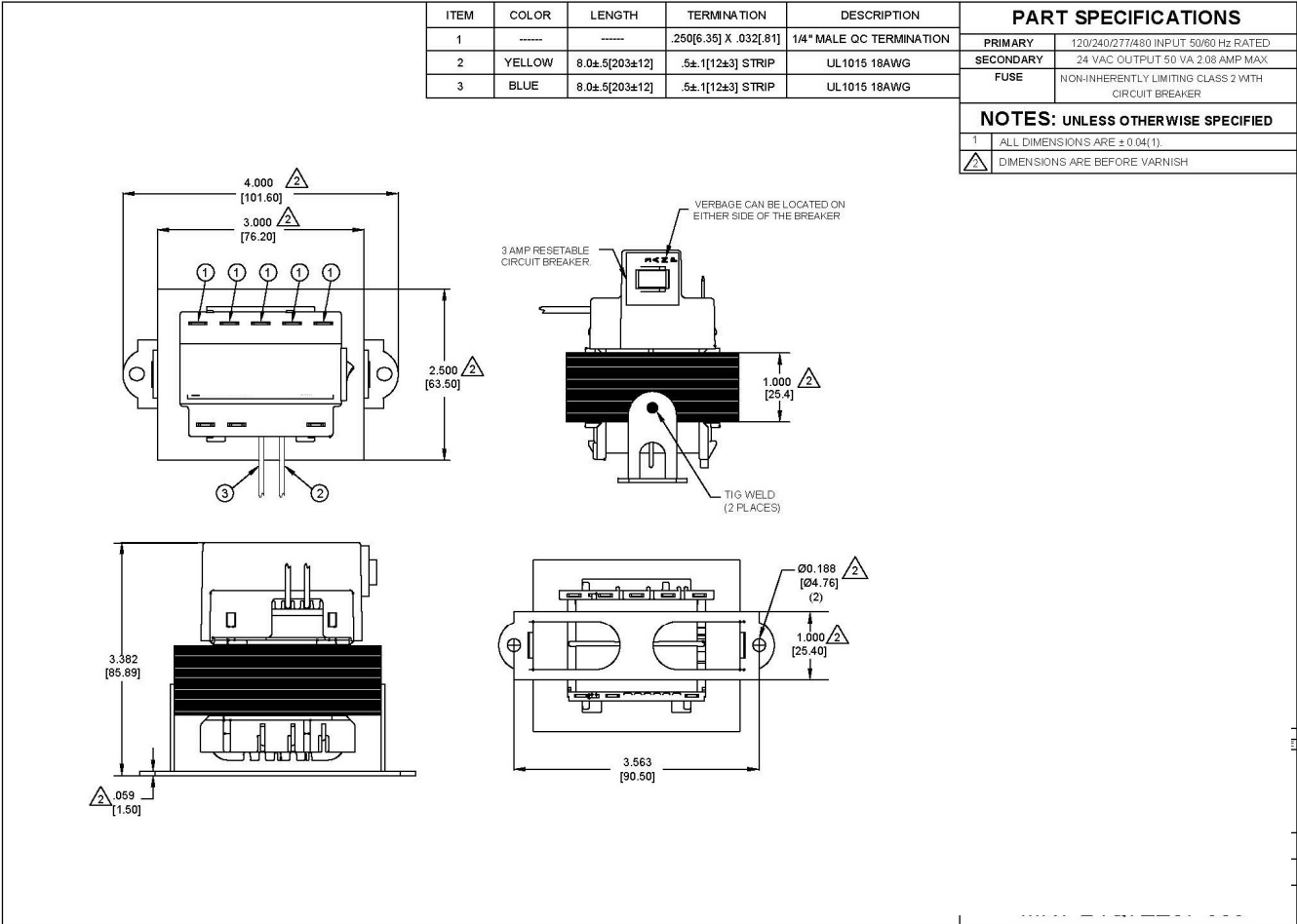
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8. APPEARANCE DRAWING: (Unit: mm)



NOTE: 1. ROHS

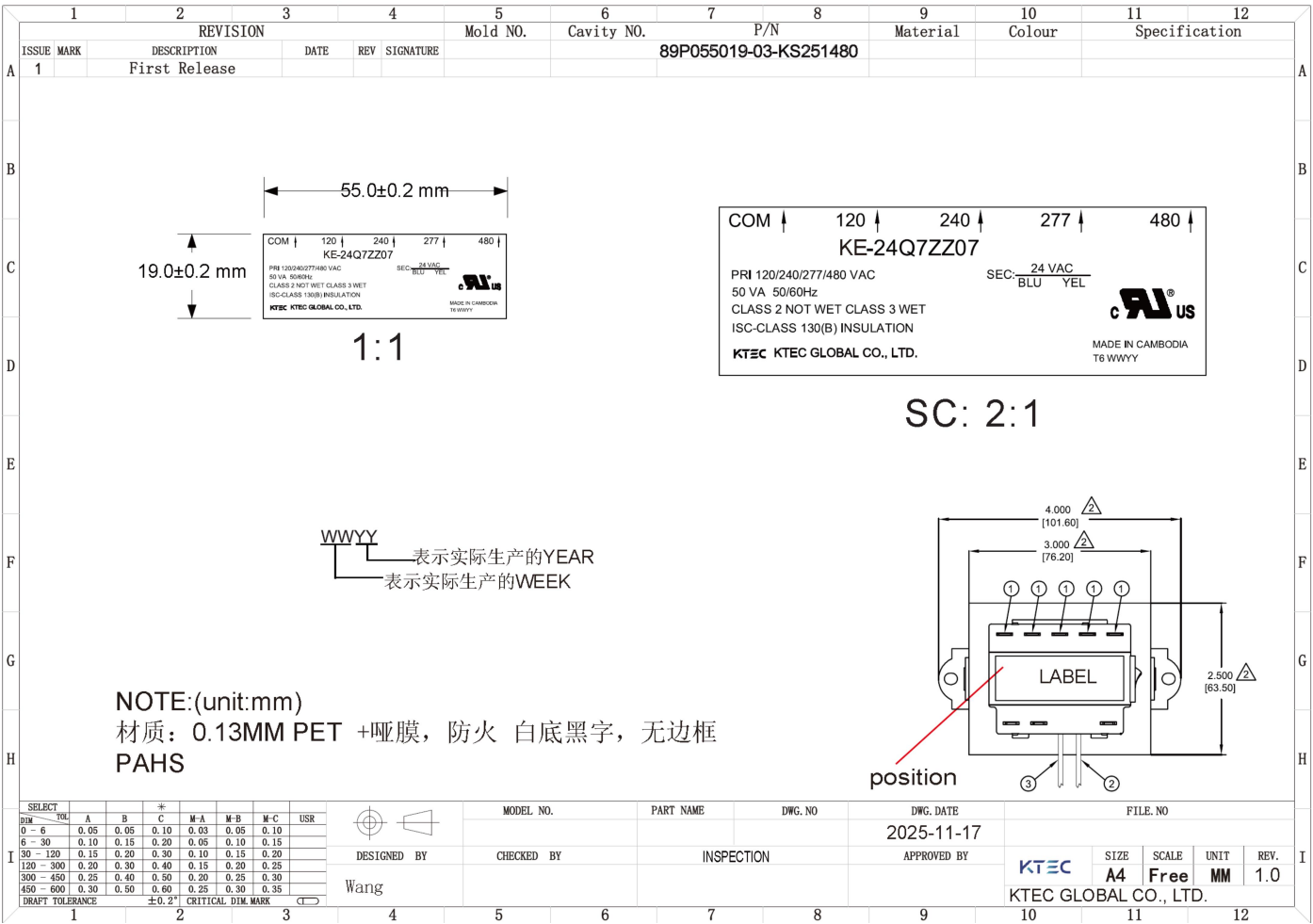
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9. TRANSFORMER LABEL

Label 1



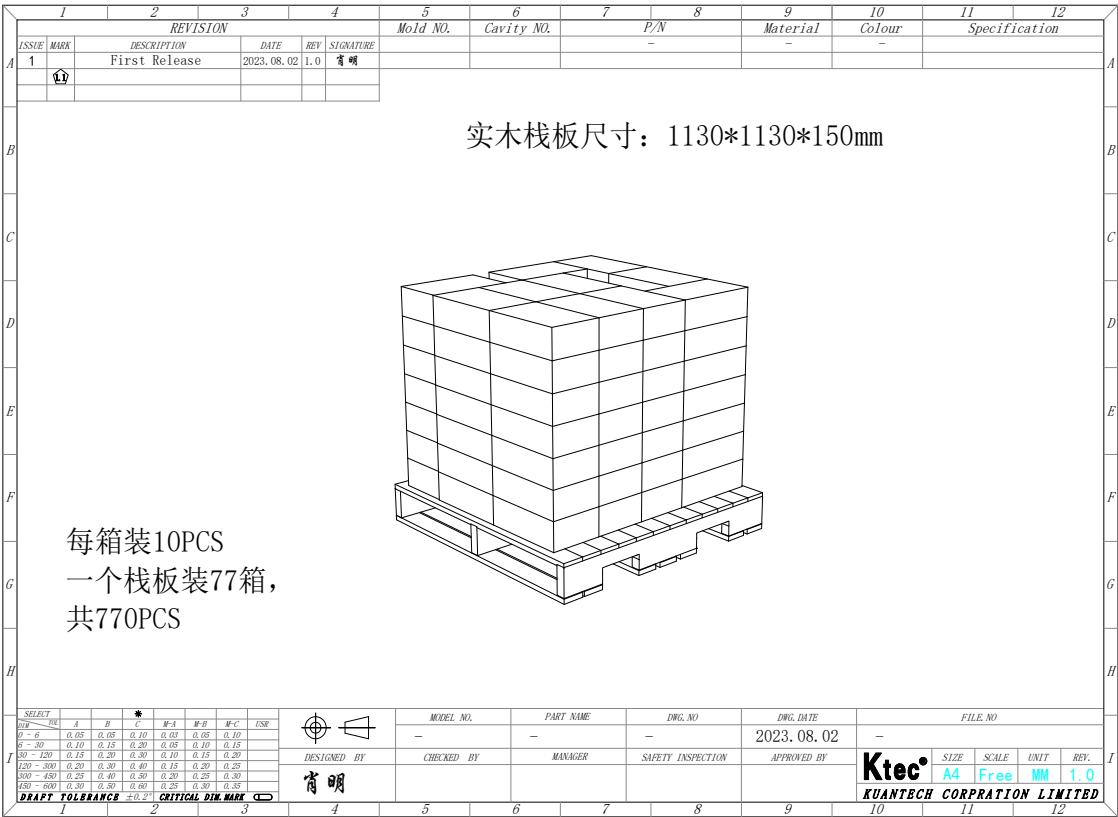
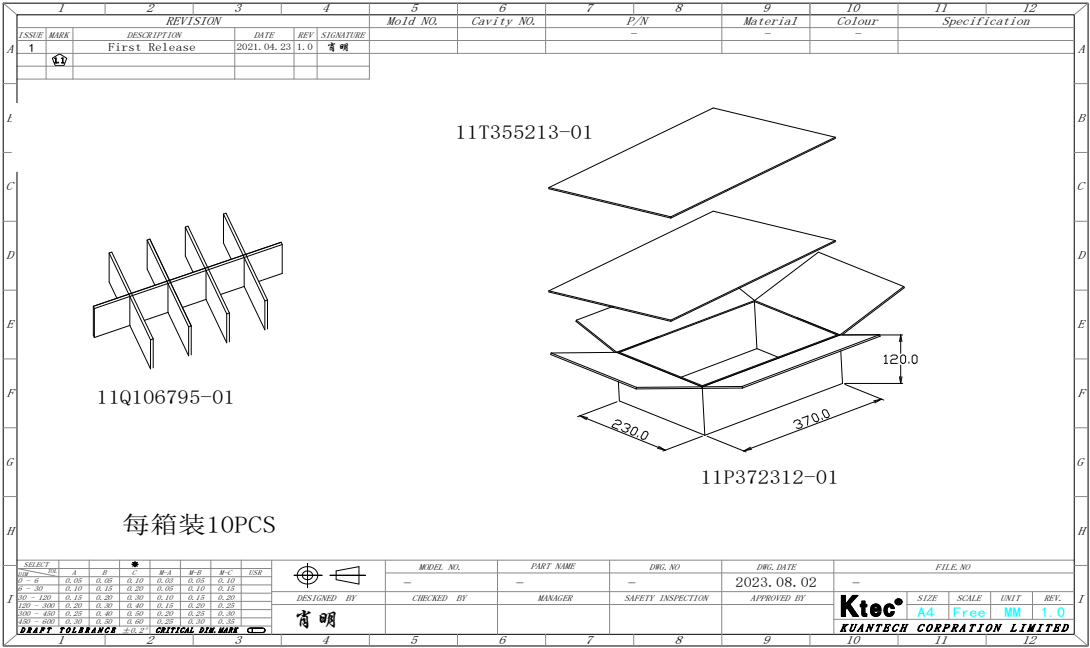
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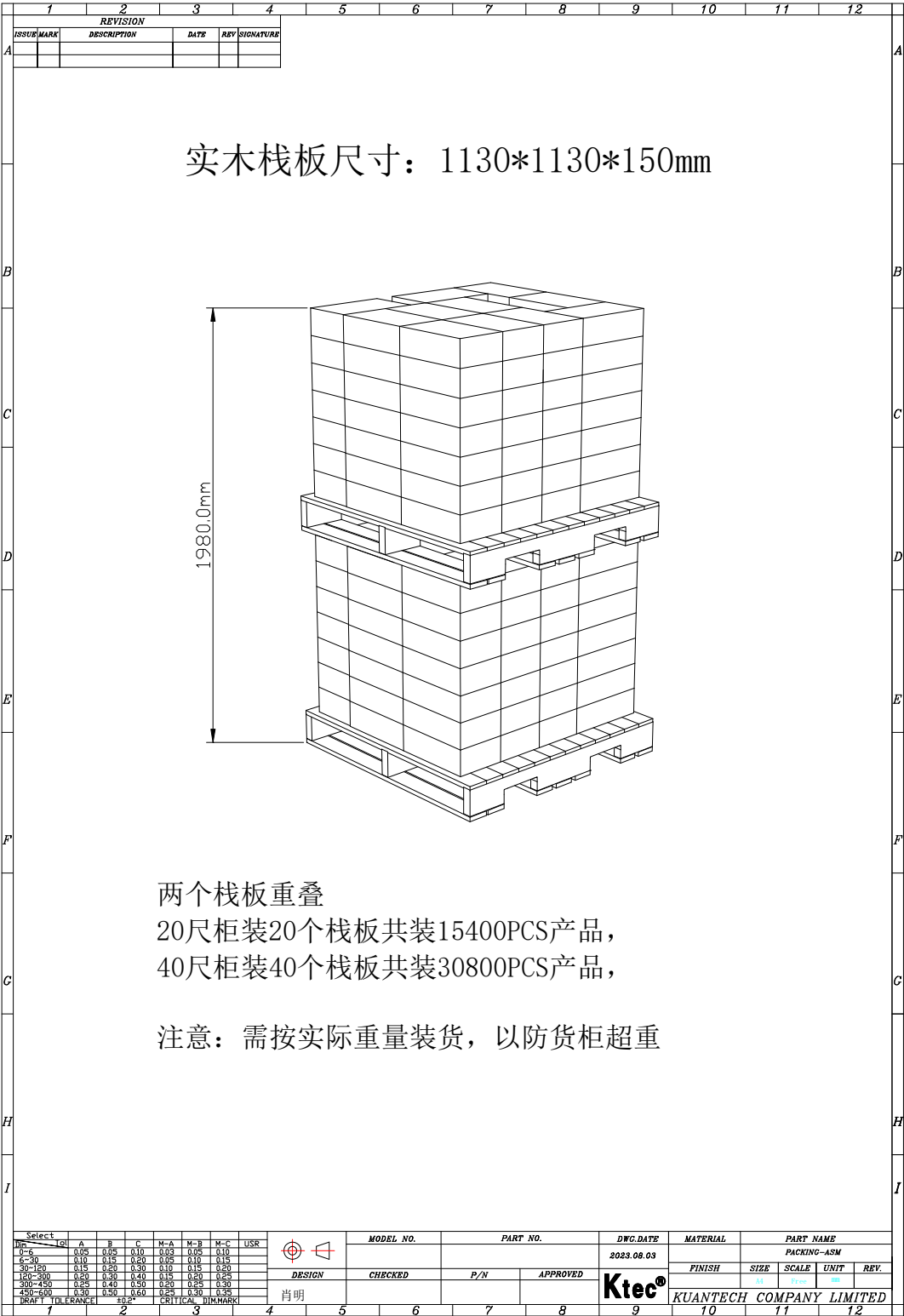
10. PACKING: (UNIT: MM)



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11. MASTER BOX LABEL

1	2	3	4	5	6	7	8	9	10	11	12	
REVISION				Mold NO.	Cavity NO.	P/N	Material	Colour	Specification			
ISSUE MARK	DESCRIPTION			DATE	REV	SIGNATURE	01P101050-03-KS251480					
A	1	First Release										
MASTER BOX LABEL												
				101.6±0.2 mm								
B												
C												
D												
E												
F												
G												
H												
KE-24Q7ZZ07 QTY-XX KTEC KTEC GLOBAL CO., LTD.												
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												
SELECT TOL A B C M-A M-B M-C USR												
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												
DESIGNED BY CHECKED BY INSPECTION												
DWG. DATE 2025-11-17												
DWG. NO. FILE NO.												
APPROVED BY												
KTEC SIZE SCALE UNIT REV.												
A4 Free MM 1.0												
KTEC GLOBAL CO., LTD.												
1	2	3	4	5	6	7	8	9	10	11	12	