



SPECIFICATION FOR APPROVAL



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KE-02C0AE01

OPEN FRAME TRANSFORMER

TRANSFORMER



KE-02COAE01

Manufacturer Part No.: KS251479

Customer Name KTEC

Customer Part NO.

Project Modify List

Item	Content	Rev.	Date	Prepared By	Checked By
1	First REV.	A	2025-11-18	Liao xiaoyan	Zong guoqing

Manufacturer

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Approved Signatures

APPROVED BY

CHECKED BY

TESTED BY

TRANSFORMER

KE-02COAE01

Manufacturer Part No.: KS251479



1. ELECTRICAL CHARACTERISTICS	4
1.1 Primary input rating:	4
1.2 Secondary output:	4
1.3 Chemical Substance Control Laws	4
1.4 Primary no-load current (IO):.....	4
1.5 Core loss (CL):.....	4
1.6 DC resistance (DCR), measured at 25°C:	4
1.7 Dielectric strength test (Hi-pot):	4
1.8 Insulation resistance (IR):.....	5
1.9 Induced voltage:	5
1.10 Humidity test :	5
1.11 Temperature rise(ΔT):	5
2. MECHANICAL CHARACTERISTICS:.....	5
2.1 Pull strength test:	5
2.2 Appearance:	5
2.3 Dimension:.....	5
3. SAFETY STANDARD:.....	5
4. INSULATION SYSTEM:	5
5. ENVIRONMENTAL CONDITION:	6
6. CORE LAMINATION METHOD:.....	6
7. INSPECTION ON MASS PRODUCTION:.....	6
7.1 The inspection items for 100% of the products:	6
7.2 H-2. Sampling test items:	6
8. APPEARANCE DRAWING: (Unit: mm).....	7
9. TRANSFORMER LABEL.....	8
10. PACKING: (UNIT: MM).....	9
11. MASTER BOX LABEL.....	11

TRANSFORMER

KE-02COAE01

Manufacturer Part No.: KS251479



1. ELECTRICAL CHARACTERISTICS

1.1 Primary input rating:

AC 240 VAC 50/60 Hz

1.2 Secondary output:

WINDING	SECONDARY OUTPUT	
INPUT VOLTAGE	LOADING(VL)	NO LOAD(VO)
240 VAC 50/60Hz	24V±5% @0.833A	27.6V±5%

1.3 Chemical Substance Control Laws

ROHS

1.4 Primary no-load current (IO):

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

1.5 Core loss (CL):

4 watts maximum, at input 240 VAC 60 Hz, no-load

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

P: / Ω maximum; S: / Ω maximum;

1.7 Dielectric strength test (Hi-pot):

AC 2500 V for 60 seconds between primary to secondary;

AC 1500 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.

TRANSFORMER

KE-02COAE01

Manufacturer Part No.: KS251479



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 480 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 240 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)

TRANSFORMER

KE-02COAE01

Manufacturer Part No.: KS251479



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)

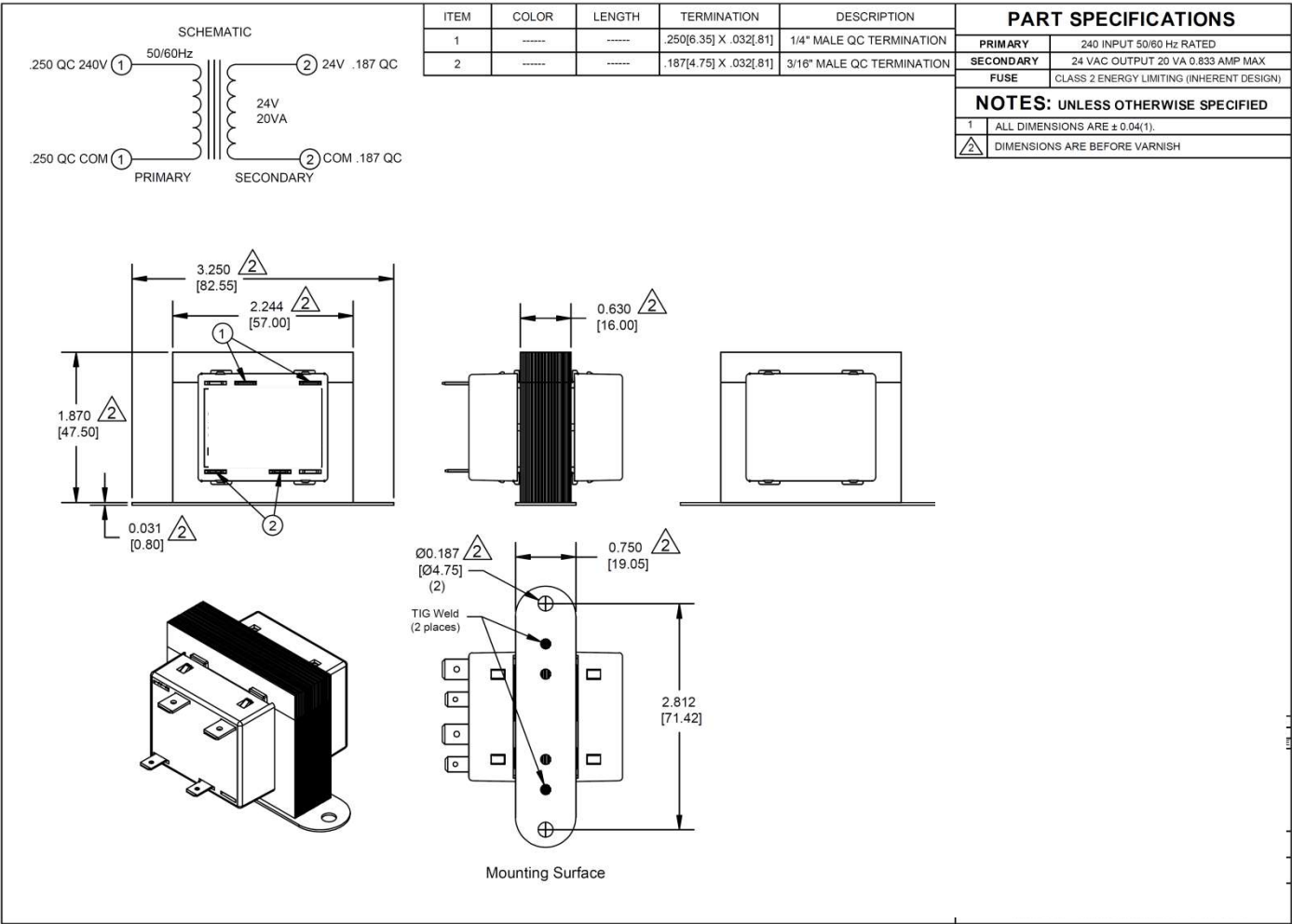
TRANSFORMER

KE-02COAE01

Manufacturer Part No.: KS251479



8. APPEARANCE DRAWING: (Unit: mm)



NOTE: 1. ROHS

TRANSFORMER

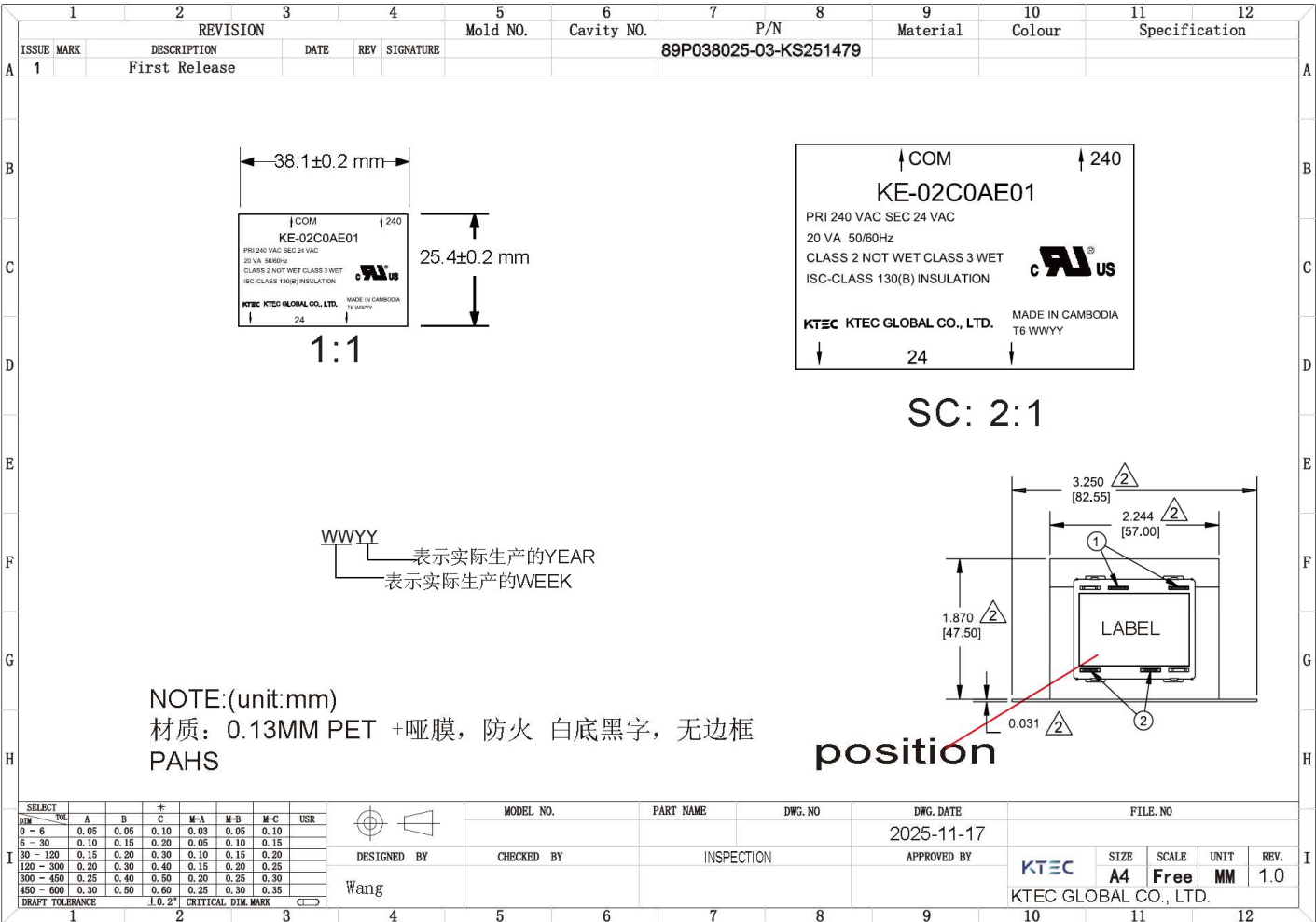
KE-02C0AE01

Manufacturer Part No.: KS251479



9. TRANSFORMER LABEL

Label 1



TRANSFORMER

KE-02COAE01

Manufacturer Part No.: KS251479



10. PACKING: (UNIT: MM)

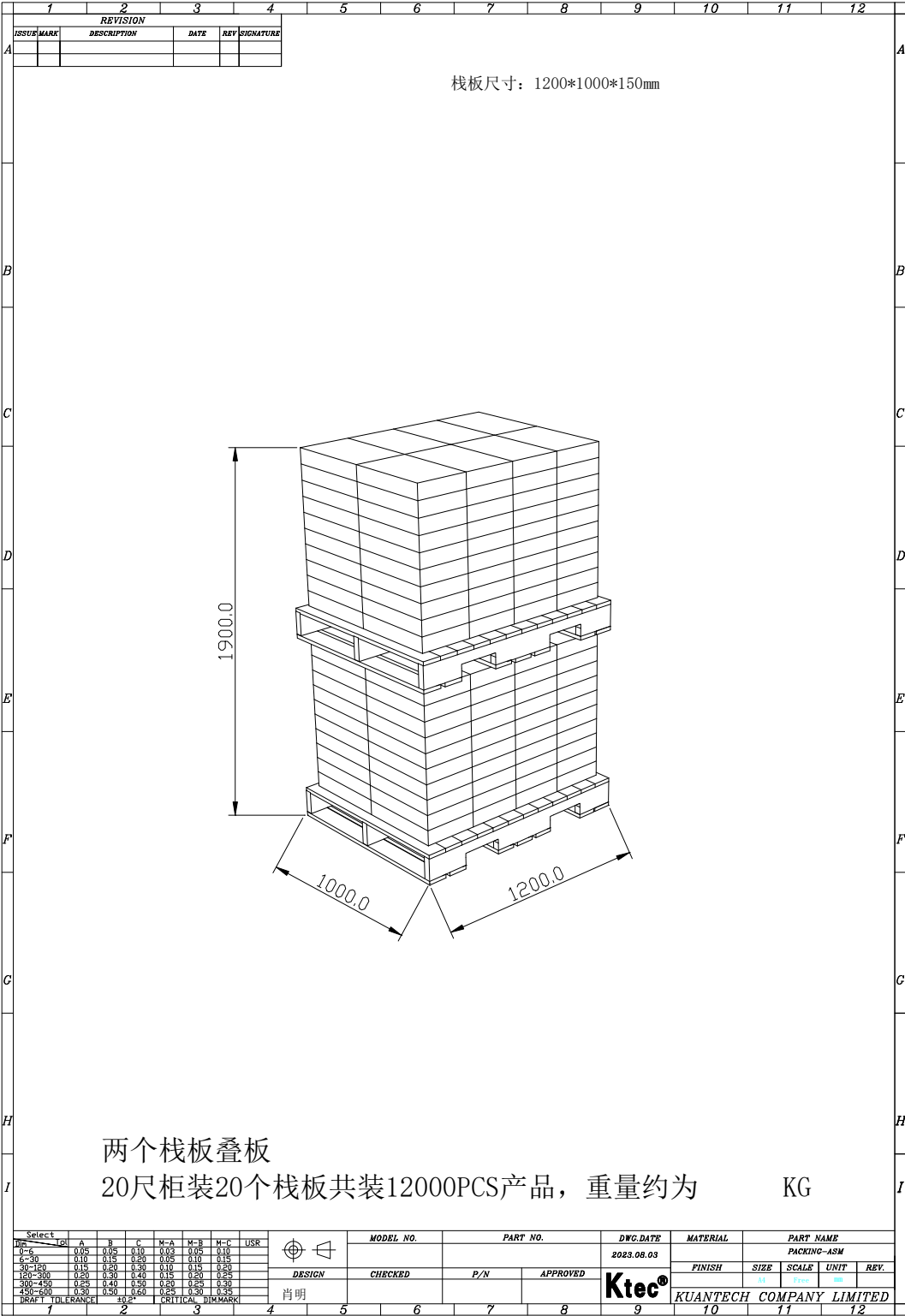
1	2	3	4	5	6	7	8	9	10	11	12								
REVISION				Mold NO.	Cavity NO.	P/N	Material	Colour	Specification										
ISSUE	MARK	DESCRIPTION	DATE	REV	SIGNATURE														
1	1	First Release	2021.04.23	1.0	肖明														
11Q858253-01 用量: 1 11T430265-01 用量: 2 11P442880-01 用量: 1 每箱装15PCS																			
DESIGNED BY				CHECKED BY				MANAGER				SAFETY INSPECTION				APPROVED BY			
肖明																			
Ktec				SIZE				SCALE				UNIT				REV.			
KUANTECH CORPORATION LIMITED				A4				Free				MM				1.0			

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														
1	1	First Release	2023.08.02	1.0	肖明														
栈板尺寸: 1200*1000*150mm 每箱装15PCS 一个栈板装80箱, 共1200PCS 毛重约 KG																			
DESIGNED BY				CHECKED BY				MANAGER				SAFETY INSPECTION				APPROVED BY			
肖明																			
Ktec				SIZE				SCALE				UNIT				REV.			
KUANTECH CORPORATION LIMITED				A4				Free				MM				1.0			

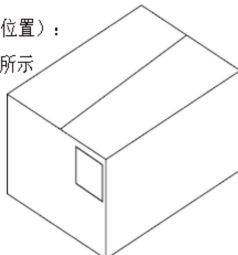
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11. MASTER BOX LABEL

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1		First Release				01P101050-02																																																																															
MASTER BOX LABEL				101.6±0.2 mm																																																																																	
KE-02C0AE01 QTY-15 KTEC KTEC GLOBAL CO., LTD.				实际装箱数量 50.8±0.2 mm																																																																																	
1:1																																																																																					
Note (unit:mm): 1. 材質：铜板纸(背面背胶)+哑膜 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 border="1"> <thead> <tr> <th>SELECT</th> <th>A</th> <th>B</th> <th>C</th> <th>M-A</th> <th>M-B</th> <th>M-C</th> <th>USR</th> </tr> </thead> <tbody> <tr> <td>0 - 6</td> <td>0.05</td> <td>0.05</td> <td>0.10</td> <td>0.05</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="3">±0.2*</td> <td colspan="4">CRITICAL DIM MARK</td> </tr> </tbody> </table>				SELECT	A	B	C	M-A	M-B	M-C	USR	0 - 6	0.05	0.05	0.10	0.05	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 border="1"> <thead> <tr> <th>MODEL NO.</th> <th>PART NAME</th> <th>DWG. NO.</th> <th>DWG. DATE</th> <th>FILE NO.</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>2025-11-17</td> <td></td> </tr> </tbody> </table>				MODEL NO.	PART NAME	DWG. NO.	DWG. DATE	FILE NO.				2025-11-17	
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