

Spec No.

TT3-ASSC00069

Customer \_\_\_\_\_





## Specifications For Approval

Description : Coil

Trade Name : OQL9050-301F

△ UL File No. : E311567

Please return one copy with your approved signature

DRAWN	CHECKED	QC CHECKED	APPROVED	RD CHECKED
				







Date: 2007/9/5

AUDIX TECHNOLOGY (XIAMEN) Co.,LTD

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<b>Specifications</b>	Classified No.	<b>TT3-ASSC00069</b>	1 7		
TITLE	OQL9050-301F				
<p><b>1、SCOPE</b> This specification applies to the OQL9050-301F Series.</p> <p><b>2、MATERIAL AND FINISH</b> The following documents for physical configuration and electrical specification form a part of this specification to the extent specified here in.</p> <p><b>3、APPEARANCE</b> The OQ coil shall be tested to be extent of crack, contamination and loss of part by visual inspection.</p> <p><b>4、PACKING</b> Packing shall be sufficient to assure against damage to physical configuration and electrical characteristics on loss during shipment.</p> <p><b>5、INSPECTION DATA SHEET</b> Inspection data: Must be attached for each Lot.</p>					
△2	2007/9/5	Supplier of wire be limited, marking revision, UL File No. add. Etc.	Customer request		
△1	2007/8/28	Product's packing direction prescribe, Adhesive add.	-		
Edition	Date	Revision	Reason		
DRAWN	CHECKED		QC CHECKED	APPROVED	ISSUED DATE
					20-Apr-07

Specifications	Classified No.	TT3-ASSC00069	2 7
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TITLE	OQL9050-301F
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## 6. ELECTRICAL CHARACTERISTICS

Inductance (at 10kHz 10mV) [ $\mu$ H Min] (#1-#2)	DC Resistance [ $\Omega$ max.]		Turns ration (at 50kHz 1V) (#1-#2):(#3-#4)	HI-POT (between #1-#4 1min)
	(#1-#2)	(#4-#3)		
30	0.12	0.18	1.666 $\pm$ 1%	VAC3000V

Thermal Class : 120 °C (Class E)

Operation Temperature Range : -25 to +80°C

Storage Temperature Range : -40 to +120°C

Storage Humidity : 70%RH

Note:

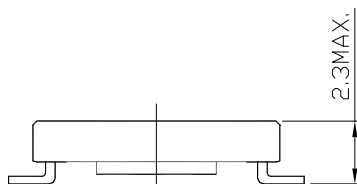
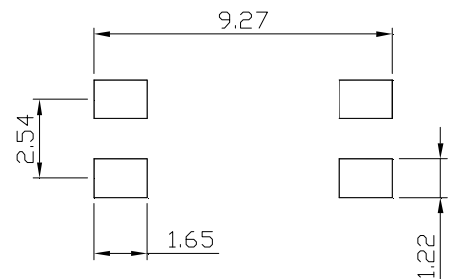
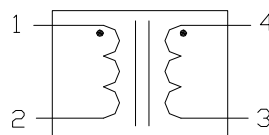
(1) Test Condition: Temperature=25 $\pm$ 15°C/Humidity=60 $\pm$ 20%RH

(2) Inspection Data: Must be attached for each lot.

## 7. DIMENSIONS (UNIT:mm)

【 Circuit Diagram 】

【 Typical Land Pattern 】



Marking:



● → Pin 1. white point

0740:

07 → Year( eg: 07, 08.....)

40 → Week(01~52)

Specifications	Classified No.	TT3-ASSC00069	3 7
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TITLE	OQL9050-301F
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### 8. MATERIAL LIST

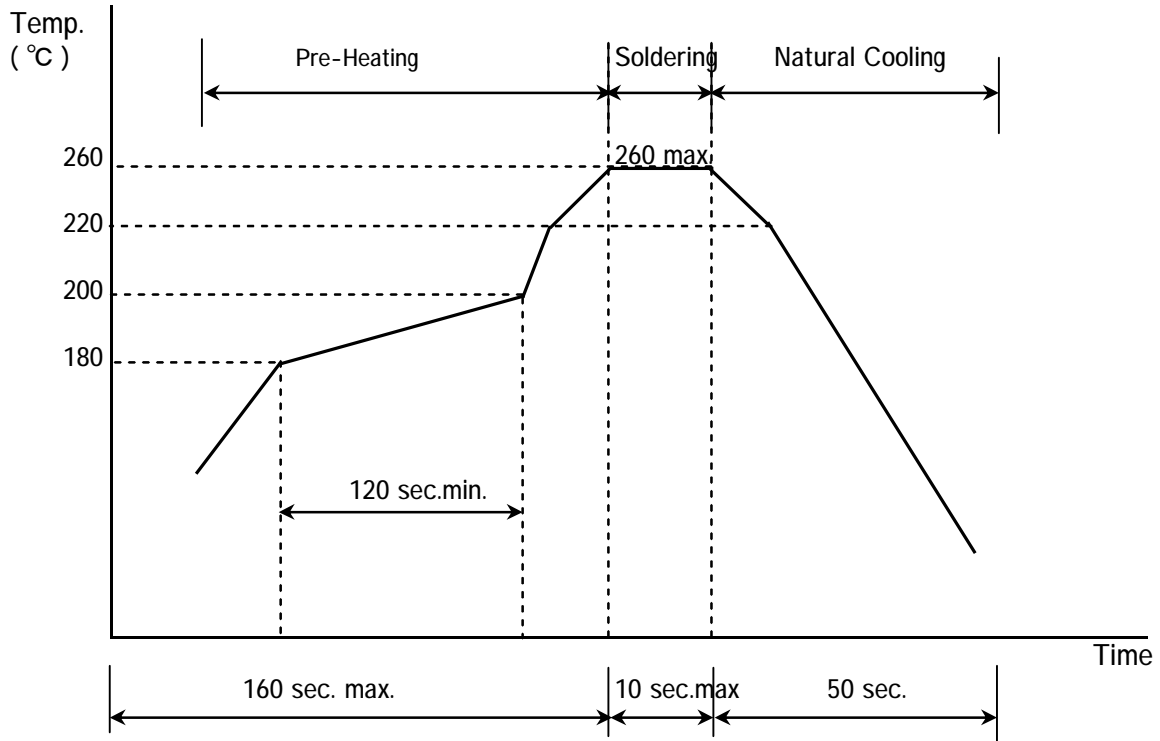
No.	Item	Trade name	Material	UL File No.	Manufactory name
①	Core	3.05/1.27/0.76	Ferrite	-----	Optional
②	Case	CP-J-8700	Phenolic	E42956	Hitachi Chemical Co., Ltd.
③	Magnet Wire	FSX-E UEW	Polyurethane Enameled Copper Wire	E206440 E174837	Furukawa Electric Co., Ltd. Jung Shing Wire Co., Ltd.
④	Adhesive 		Silicone	-----	Optional
⑤	Solder	Sn95/1Ag/4Cu	Pb Free	-----	ALPHA Metal Co., Ltd.

### 9. RELIABILITY

No.	Item	Condition	Inspection								
1	Thermal shock test	-40°C ~ +85°C/1hour × 1000cycles	Appearance, structure and electrical characteristics shall not be remarkably changed after testing, and left for 1 and 2 hours in room conditions.								
2	Cold temperature storage	-40°C ± 2°C × 1000h									
3	Constant humidity and temperature test	+60°C • (90~95)%RH × 1000h									
4	High temperature storage	+130°C ± 2°C × 1000h									
5	Vibration test of the specimens soldered on the PCB	Ferquency range:10 to 55Hz(1min.)Amplitude: 1.5mm. Directions: 2 hours each in X ,Y&Z, total 6 hours.									
6	Vibration test of the packaging	Ferquency range:10 to 25Hz(1min.)Amplitude: 5mm. Directions: 2 hours each in X ,Y&Z, total 6 hours.									
7	Shock test of the specimens soldered on the PCB	Acceleration: 1000m/s <sup>2</sup> . Pulse time: 6ms Directions: 6 times each in X ,Y&Z.									
8	Shock test of the packaging	Acceleration: 1000m/s <sup>2</sup> . Pulse time: 6ms Directions: 3 times each in X ,Y&Z.									
9	Reflow soldering( soldered)	Leadframe condition. Temperature curve.									
10	Reflow soldering( no soldered)	Leadframe condition. Temperature curve.									
11	Resistance to soldering heat	Pre-heat at 130°C±2°C,2~3 minutes. And soak into a molten solder of 260°C±5°C for 10±0.5sec.									
12	Solderability	Pre-heat at 130°C±2°C,10 minutes. Soldering temperature: 235°C±5°C for 5±0.5sec.									
13	Robustness of Pins(Pull)	Power of pull: 1.0kgf Keep time: 1minute									
14	Robustness of Pins(Push)	Power of push: 1.0kgf Keep time: 10sec.									
15	Packaging dropping test	The weight of carton and the hight of dropping <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">G&lt;10</td> <td style="width: 25%;">10&lt;G≤25</td> <td style="width: 25%;">25&lt;G≤50</td> <td style="width: 25%;">50&lt;G≤75</td> </tr> <tr> <td>800mm</td> <td>600mm</td> <td>450mm</td> <td>350mm</td> </tr> </table>		G<10	10<G≤25	25<G≤50	50<G≤75	800mm	600mm	450mm	350mm
G<10	10<G≤25	25<G≤50		50<G≤75							
800mm	600mm	450mm		350mm							
16	Humidity longevity test	The condition: +60°C • (90~95)%RH DC500V 12 weeks Stop for 4 hours every other 20 hours.									
17	Hi-temperature longevity tes	The condition: θ = θ m - Δ θ AC500V 12 weeks Stop for 4 hours every other 20 hours.									

**10. SOLDERING PROFILE**

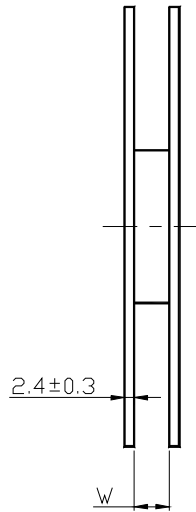
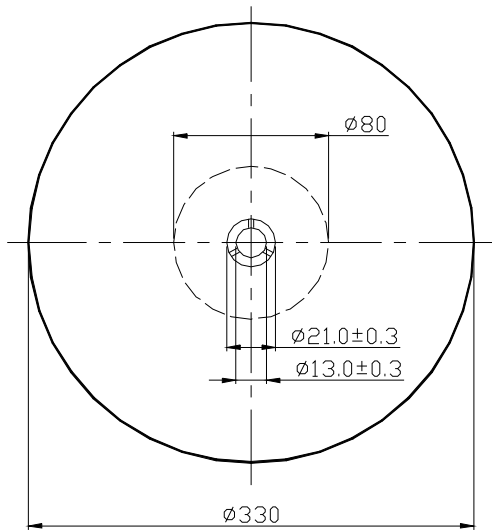
10-1 Re-flow Soldering profile



10-2 Manual soldering  
 Solder iron temperature :  $380 \pm 5^{\circ}\text{C}$   
 Soldering time :  $3 \pm 1\text{sec.}$

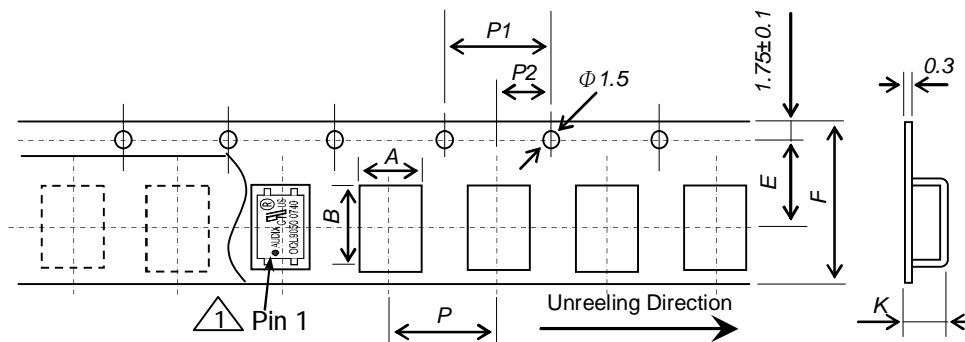
11. PACKAGE DETAILS

(1) Reel (UNIT: mm)

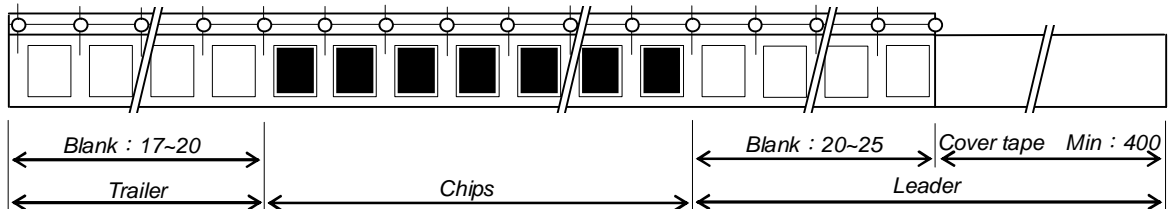


	W	Q'ty (pcs)
OQL 9050-301F	16 +5/-0	3000 max

(2) Tape



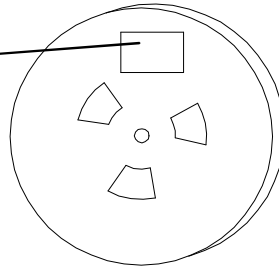
	A $\pm 0.1$	B $\pm 0.1$	K $\pm 0.1$	P $\pm 0.2$	P1 $\pm 0.1$	P2 $\pm 0.2$	E $\pm 0.2$	F $\pm 0.2$
OQL 9050-301	4.8	9.55	2.3	8.0	4.0	2.0	7.5	16



Specifications	Classified No.	TT3-ASSC00069	6 7
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TITLE	OQL9050-301F
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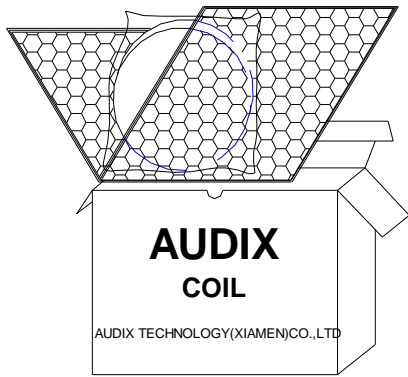
<b>AUDIX</b>		
COIL		
MODEL OQL9050-301F		
Quantity	3000	PCS
Lot No.	/	
R/N	/	
AUDIX TECHNOLOGY(XIAMEN)CO.,LTD		



**12、PACKAGE(UNIT:mm)**

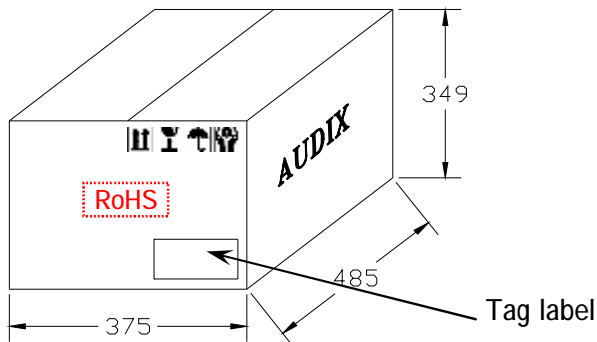
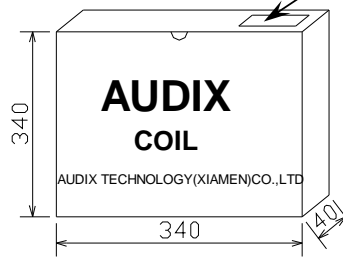
Per one package : 30,000pcs  
 Box : Cardboard box  
 Number : ten

- ※1 Reel and desiccant is put into the polyvinyle pack.
- ※2 Reel is put into the interior box made from styrene foam.



3000 parts (inner)

Tag label



**13、TAG LABEL**

MODEL	
Q'TY	
LOT	
DATE	

Specifications	Classified No.	TT3-ASSC00069	7 7
TITLE	OQL9050-301F		
<p><b>14. STORAGE CONDITIONS</b></p> <p>Recommended conditions</p> <p>Ambient temperature Bellow 40°C</p> <p>Humidity Bellow 70%</p> <p>Shelf Life</p> <p>Coils should be used within 6 months from the time of delivery.</p> <p>Precautions of storage after unpacking</p> <p>Use it within two weeks after opening, in order to prevent degradation of the solderability.</p> <p>Store the leftover product in dry condition with desiccant.</p>			