

Molex 50-57-9004 PDF

深圳创唯电子有限公司

<http://www.molex-connect.com>



TEST SUMMARY

SL 70058 TERMINAL

1.0 SCOPE

1.1 This Test Summary covers the 2.54 mm (.100 inch) centerline (pitch) 70066 SL connector housing and 70058 SL crimp terminal terminated with 24 AWG wire using Crimp technology with Pd/Ni plating.

1.2 To evaluate the performance of components after multiple cycling when plated with gold flash over palladium nickel.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND PART NUMBER(S)

2.1.1 Housing: 70066 series, 4 circuit, single row, .100" center

2.1.2 Terminal: 70058 series 24-30 AWG

2.1.2.1 Plating: Au flash (3-5 μ ") over Pd/Ni (30 μ " min.) over Ni (50 μ " min.)

2.1.3 Wafer assembly: 70221 series, 40 circuit, single row, .025" square pin.

2.1.3.1 Plating: Au flash (3-5 μ ") over Pd/Ni (30 μ " min.) over Ni (50 μ " min.)

2.1.4 Cable: 0.5 mm round solid tinned, insulation diameter 1.0mm

2.2 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

2.2.1 PS-70400, Product spec for single row stackable linear (SL) connector system

2.2.2 PS-70058, Product specification for SL crimp terminal, series 70058

2.2.3 PS-70221, Product specification for C-Grid wafer assembly, series 70221

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING PROCEDURES AND SEQUENCES

3.1.1 Testing was performed by Molex Europe, see section 5.1 for tests and sequence (Molex World Wide Test Sequence 1)

4.0 QUALIFICATION

4.1 Laboratory conditions and sample selection are in accordance with **EIA-364**.

REVISION: B	ECR/ECN INFORMATION: EC No: UCP2008-1762 DATE: 2008/01/30	TITLE: TEST SUMMARY FOR SL 70058 TERMINAL PLATED WITH GOLD FLASH PALLADIUM NICKEL	SHEET No. 1 of 2
DOCUMENT NUMBER: TS-70058-001	CREATED / REVISED BY: RSFOX	CHECKED BY: DBRINKMAN	APPROVED BY: DBRINKMAN



TEST SUMMARY

5.0 PERFORMANCE

5.1 ELECTRICAL PERFORMANCE RESULTS: Contact Resistance (Low Level)

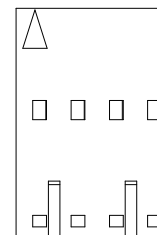
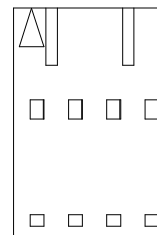
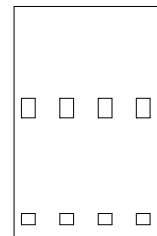
DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
Contact Resistance	Initial	30 milliohms MAXIMUM	12.5 mΩ	11.5 mΩ	13.5 mΩ
Durability	After 3,000 Cycles	10 milliohms MAXIMUM*	12.5 mΩ	12.2 mΩ	12.9 mΩ
	After 6,000 Cycles	10 milliohms MAXIMUM*	12.8 mΩ	12.0 mΩ	14.0 mΩ
	After 10,000 Cycles	10 milliohms MAXIMUM*	12.5 mΩ	11.6 mΩ	13.1 mΩ
Thermal Shock Per IEC-68-2-14 -40 °C to +105 °C 10 cycles 30 minutes dwell	Uncycled	10 milliohms MAXIMUM*	12.6 mΩ	11.8 mΩ	13.5 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.0 mΩ	12.6 mΩ	13.9 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.2 mΩ	12.0 mΩ	14.7 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	13.6 mΩ	12.4 mΩ	18.2 mΩ
Thermal Aging Per MIL-STD 202F Method 108A 10 days at 105 °C	Uncycled	10 milliohms MAXIMUM*	12.7 mΩ	12.0 mΩ	13.5 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.4 mΩ	12.6 mΩ	14.4 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.5 mΩ	12.7 mΩ	14.4 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	14.1 mΩ	12.3 mΩ	21.5 mΩ
Cyclic Humidity Per MIL-STD 202, Method 106D 25 °C to 65 °C 24 Hr, 90-98% RH	Uncycled	10 milliohms MAXIMUM*	13.0 mΩ	12.1 mΩ	14.8 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.5 mΩ	12.5 mΩ	14.5 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.6 mΩ	12.8 mΩ	14.3 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	14.7 mΩ	12.8 mΩ	20.6 mΩ
Flowers of Sulfur 17 hours at 65 °C	Uncycled	10 milliohms MAXIMUM*	13.0 mΩ	12.2 mΩ	14.8 mΩ
	3,000 Cycles	10 milliohms MAXIMUM*	13.7 mΩ	12.7 mΩ	14.5 mΩ
	6,000 Cycles	10 milliohms MAXIMUM*	13.9 mΩ	13.0 mΩ	15.5 mΩ
	10,000 Cycles	10 milliohms MAXIMUM*	14.9 mΩ	13.3 mΩ	20.5 mΩ

* change from initial

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DOCUMENT NUMBER: TS-70058-001	CREATED / REVISED BY: RSFOX	CHECKED BY: DBRINKMAN	APPROVED BY: DBRINKMAN
TEMPLATE FILENAME: TEST_SUMMARY[SIZE_A4](V.1).DOC			

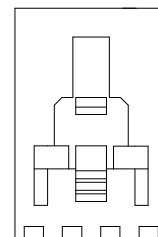
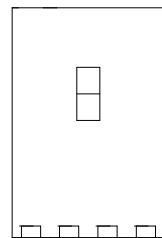
NOTES:

1. THIS SPECIFICATION APPLIES TO ALL 70066 HOUSING OPTIONS.
2. ALL PARTS ARE PACKAGED IN BAGS, IN THE QUANTITY SHOWN.
APPROXIMATE BAG SIZE IS LISTED FOR REFERENCE ONLY.
3. EACH BAG TO BE LABELLED WITH THE FOLLOWING INFORMATION:
MATERIAL NO., QUANTITY, WORK ORDER NO., AND LOT NO.



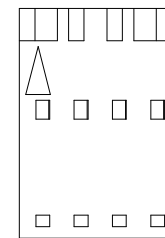
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OPTION "K"
OPTION "L"
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OPTION "L"

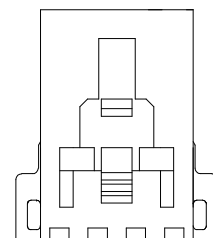
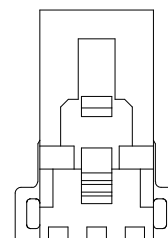


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OPTION "G"
OPTION "M"
OPTION "P"
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OPTION "P"



OPTION "H"
OPTION "J"



70066 PART QUANTITIES PER BAG

	APPROX. BAG SIZE (INCHES)			
CIRCUIT SIZE	4.0 X 11.5	6.1 X 11.5	9.1 X 11.5	12.6 X 11.5
2	500			
3	500			
4	500			
5	500			
6		500		
7		500		
8		500		
9		500		
10		500		
11		500		
12		500		
13		500		
14		500		
15			500	
16			500	
17			500	
18			500	
19			500	
20			500	
21			500	
22				500
23				500
24				500
25				500

ADD OPTION "P"				DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
EC NO: UCP2007-4725						4 PLACES	± ---	mm	INCH	± ---	DRAWN BY SCHAFER	DATE 1999/11/19	TITLE PACKAGING SPECIFICATION FOR 70066 IN BAGS STANDARD PACK QUANTITIES				
DRWN:DMORGAN 2007/03/12						3 PLACES	± ---			± ---	CHECKED BY BRINKMAN	DATE 1999/11/26					
CH'KD:BBARKER 2007/03/21						2 PLACES	± ---			± ---	APPROVED BY BRINKMAN	DATE 1999/11/30					
APPR:SMILLER 2007/03/23						1 PLACE	± ---			± ---			molex MOLEX INCORPORATED				
						ANGULAR ±1/2°					MATERIAL NO.						DOCUMENT NO.
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		PK-70066-100				1 OF 1		
B1				REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												