

# IX-UC2000

Part No. Receptacle: 30112

# Test Report

Product Specification no. PRS-2508

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Rev.	ECN	Date	Prepared by	Checked by	Approved by

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## IX-UC2000 Test Report

#### 1. Purpose

To evaluate the performance of IX-UC series Connector in accordance with PRS-2508.

#### 2. Specimen

(1) IX-UC2000 RECEPTACLE TOP MOUNT TYPE (Part No. 30112-024E-01)

#### 3. Test Sequence

All the evaluations were performed in accordance with Table 1.Test Sequence.

#### 4. Result

See the data, Graph 1 to 7. For the details of the testing conditions and requirements, see PRS-2508. The "n" in the tables show the number of measurement points.

#### 5. Conclusion

All the specimens met the requirements of PRS-2508.

Table 1 Test Sequence and Sample Quantity

Test Item	Group											
rest item	Α	В	С	D	Е	F	G	Н				
Contact resistance		2,7	1,4,6	1,4,6	1,4, 6,8	1,4, 6,8,10						
Insulation resistance		1,8										
Dielectric withstanding voltage		9										
Temperature rising	1											
Mating force		3										
Unmating force		4,6										
Durability(preconditioning)			2	2	2	2						
Durability		5										
Vibration				5								
Reseating			5		7	9						
High temperature life (preconditioning)				3		3						
High temperature life			3									
Thermal shock					3							
Thermal disturbance						7						
Cyclic temperature and humidity					5							
Mixed flowing gas						5						
Solder ability							1					
Soldering heat resistance								1				
Specimen quantity.	5 pcs.	5 pcs.	5 pcs.	5 pcs.	5 pcs.	5 pcs.	5 pcs.	5 pcs.				

 $\fint Numbers$  indicate sequence in which tests are performed.

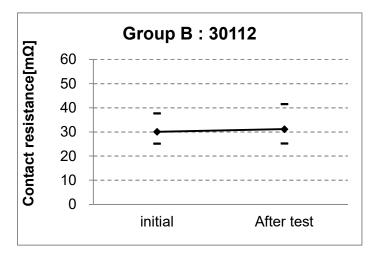
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TR-18061-01EN

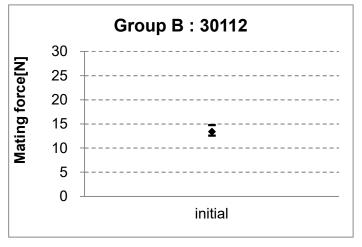
Group	Contents	of measurement	Spec.	Unit	Q'ty	n			Data			Judge.		
Group	Contents of measurement		Орсс.	Offic	Qty	"	AVE.	MAX.	MIN.	S	X±3s	ouuge.		
Α	Temperature rising													
	30112	After test	⊿T 30 MAX.	${\mathbb C}$	5	-			19.6	Max.		PASS		
В	Durability													
	Contact resistance													
	30112	Inital	40 MAX.	mΩ 5	120	30.07	37.7	25.2	2.73	38.25	PASS			
		After 10000 cycles	50 MAX.		Ů		31.19	41.6	25.3	3.79	42.54	PASS		
	Mating force	In sec.			T _		1				Т	T =		
	30112	Initial	20 MAX. 5 MIN.	N	5	-	13.41	14.8	12.6	-	-	PASS		
	Unmating force	Inifel	20 MAY 9 MINI		1		40.44	44.0	40.0			DAGO		
	30112	Initial	20 MAX. 8 MIN. 20 MAX. 6 MIN.	N	5	-	13.41	14.8	12.6	-	-	PASS		
	Insulation resistance	After 10000 cycles	ZU IVIAA. 6 IVIIIN.				8.62	9.0	8.3	-	-	PASS		
	Insulation resistance	Initial	100 MIN.				1		100	Min.		PASS		
	30112	After test	100 MIN. 100 MIN.	МΩ	5	-			100	Min.		PASS		
	Dielectric withstanding		100 WIIIN.						100	IVIII I.		FASS		
	Dielectric With Startding		No abnormalities such as											
	20442	Initial	creeping discharge,		_				No abnormalit	у		PASS		
	30112	After test	flashov er, insulator	-	5	-			No abnormalit	······································		PASS		
		THE LOST	breakdown occur.						140 abriorriant	J		1 700		
	Appearance		Tarri er i	ı	ı	ı	ı					1		
	30112	After test	No abnormality adversely affecting the performance	-	_	-	No abnormality					PASS		
	30112	Aller lest	shall occur.		5							PASS		
C														
	High temperature life  Contact resistance													
	Confect Coloration	Initial	40 MAX.	1		T	35.62	38.6	32.8	1.08	38.88	PASS		
	30112	After high temp.	50 MAX.	mΩ	5	120	34.35	39.6	27.8	1.93	40.13	PASS		
		After reseating	50 MAX.				33.40	38.7	29.0	1.87	39.00	PASS		
	Appearance													
			No abnormality adversely			-								
	30112	After test	affecting the performance	-	5		No abnormality					PASS		
			shall occur.											
D	High temperature life(	preconditioning)→Vibration												
	Contact resistance													
		Initial	40 MAX.				29.68	35.7	25.0	2.97	38.60	PASS		
	30112	After high temp.	50 MAX.	mΩ	5	120	30.81	39.7	25.2	3.00	39.81	PASS		
		After vibration	50 MAX.				30.18	35.9	25.1	2.69	38.25	PASS		
	Electrical discontinuity													
	30112	During vib. test	1 MAX.	μs	5	-			No discontinuit	у		PASS		
	Appearance	_	T		1		1					1		
	00440	A 4 4 4	No abnormality adversely affecting the performance		_				N = =  = = = = = = = = = = = = = = = = =			D/ 00		
	30112	After test	shall occur.	-	5	-	No abnormality					PASS		
	The amount of the Co.	Estamanation on 11 100	Chair occur.	<u> </u>	<u> </u>	<u> </u>								
E	Thermal shock→Cyclic temperature and humidity													
	Contact resistance	Inital	40 MAX.				20.64	26.0	20.4	1.05	20 AC	PASS		
	30112	After thermal shock	40 MAX. 50 MAX.	. <sub>m</sub> O			32.61 32.59	36.8 37.2	28.1 25.9	1.95 2.10	38.46 38.88	PASS		
		After humidity	50 MAX.		5	120	35.71	39.7	32.6	1.50	40.21	PASS		
		After reseating	50 MAX.	1			35.56	39.7	31.1	1.75	40.21	PASS		
	Appearance	roodaing	IVIAA.	l	<u> </u>	l	00.00	55.5	01.1	1.75	70.01	1 700		
	pp-00.00100		No abnormality adversely											
	30112	After test	affecting the performance	-	5	-	No abnormality					PASS		
			shall occur.											

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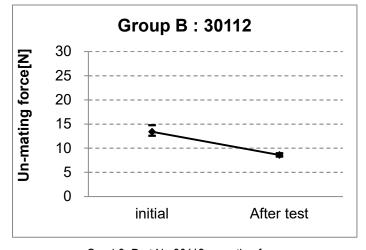
	Contact resistance													
	30112	Initial	40	MAX.		5	120	29.59	37.2	25.1	2.98	38.53	PASS	
		After high temp.	50	MAX.				30.26	37.6	25.3	3.14	39.68	PASS	
		After gas	50	MAX.	$\text{m}\Omega$			30.70	37.5	25.0	2.90	39.38	PASS	
		After thermal disturbance	50	MAX.				29.26	35.3	25.1	2.78	37.60	PASS	
		After reseating	50	MAX.				29.85	36.9	25.0	2.96	38.72	PASS	
	Appearance													
	30112	After test	No abnormality a affecting the performance shall occur	-	5	-	No abnormality					PAS		
J	Solder ability													
	Solder wetting area	3												
	30112	After test	95	MIN.	%	10	-	95 MIN.						
K	Resistance to reflow soldering heat													
	Appearance													
	30112	After test	No deformation adversely affect			10				No abnormality			PASS	



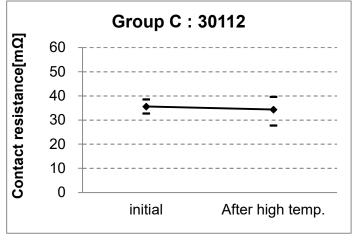
Graph1. Part No.30112 contact resistance



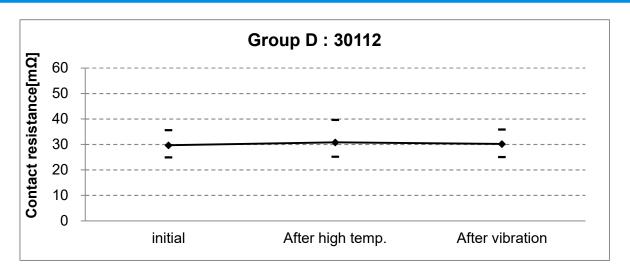
Graph2. Part No.30112 mating force



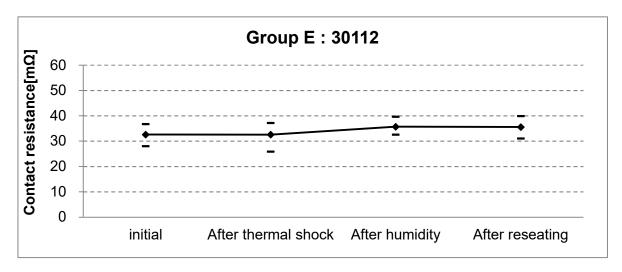
Graph3. Part No.30112 unmating force



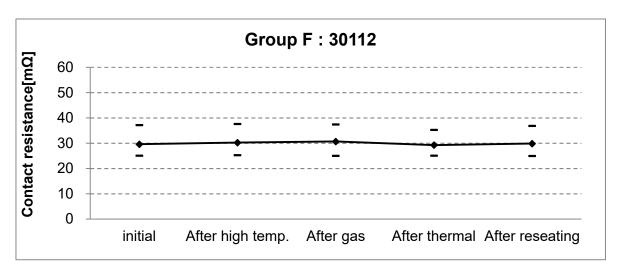
Graph4. Part No.30112 contact resistance



Graph5. Part No.30112 contact resistance



Graph6. Part No.30112 contact resistance



Graph7. Part No.30112 contact resistance