

5.1.3 ELECTRICAL PERFORMANCE RESULTS (with Brass material and Gold plating)

TEST CONDITION	TREATMENT	REQUIREMENT	UNIT	Mean	Min	Max
Contact Resistance (Low Level)	After Durability (Mated/Unmated Cycling)	20 Maximum (change from initial)	milliohm	2.62	2.24	3.35
	After Vibration	20 Maximum (change from initial)	milliohm	3.26	2.59	5.36
		Discontinuity	No Opens			
	After Mechanical Shock	20 Maximum (change from initial)	milliohm	2.98	2.47	3.69
		Discontinuity	No Opens			
	After Temperautre Cycling	20 Maximum (change from initial)	milliohm	~	~	~
		Appearance	No Damage			
	After Humidity (Steady State)	20 Maximum (change from initial)	milliohm	3.05	2.32	4.69
		Appearance	No Damage			
	After Flowers of Sulfur	20 Maximum (change from initial)	milliohm	~	~	~
		Appearance	No Damage			
	After Ammonia Gas	20 Maximum (change from initial)	milliohm	~	~	~
		Appearance	No Damage			
	After Salt Spray	20 Maximum (change from initial)	milliohm	~	~	~
		Appearance	No Damage			

5.0 PERFORMANCE

	REV.	A	A	A	A	A	A	A																	
	SHEET	1	2	3	4	5	6	7	8																
REVISE ON PC ONLY									TITLE: TEST SUMMARY Mini-Fit Jr. Surface Mount Compatible (SMC)																
A		RELEASED UCR2000-0030 SAMIEC 99-7-9							THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
REV.		DESCRIPTION																							
DESIGN CONTROL UCR						STATUS			WRITTEN BY: SAMIEC			CHECKED BY: BANDURA			APPROVED EDGLEY			DATE: YR/MO/DAY 99/07/09							
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English

TEST CONDITION	TREATMENT	REQUIREMENT	UNIT	Mean	Min	Max
Connector Mate and Unmate Forces (per 2 ckts)	Initial Mating	2.9 Maximum (6.4) Maximum	Kgf (lbf)	1.15 (2.5)	1.00 (2.2)	1.26 (2.8)
	Final Mating	2.9 Maximum (6.4) Maximum	Kgf (lbf)	2.03 (4.5)	1.88 (4.1)	2.24 (4.9)
	Initial Unmating	0.1 Minimum (0.22) Minimum	Kgf (lbf)	0.68 (1.5)	0.65 (1.4)	0.71 (1.6)
	Final Unmating	0.1 Minimum (0.22) Minimum	Kgf (lbf)	1.00 (2.2)	0.84 (1.85)	1.14 (2.5)
Terminal Retention Force (to housing)	Initial-Male Initial-Female	3 (6.6)Minimum 3 (6.6) Minimum	Kgf (lbf) Kgf (lbf)	~ 11.43(25.2)	~ 10.3(22.7)	~ 13.80(30.4)
Terminal Insertion Force (into housing)	Initial-Male Initial-Female	1.5(3.3) Maximum 1.5(3.3) Maximum	Kgf (lbf) Kgf (lbf)	~ 0.81(1.8)	~ 0.67(1.5)	~ 1.06(2.3)
Wire Pullout Force (Wire to Terminal Retention)	18 Awg	9.0 Minimum (19.9) Minimum	Kgf (lbf)	16.8 (37.0)	15.7 (34.6)	18.4 (40.6)
	20 Awg	6.0 Minimum (13.2) Minimum	Kgf (lbf)	13.4 (26.5)	12.7 (28.0)	14.3 (31.5)
	22 Awg	4.0 Minimum (8.8) Minimum	Kgf (lbf)	8.3 (18.3)	7.7 (17.0)	8.6 (19.0)
	24 Awg	3.0 Minimum (6.6) Minimum	Kgf (lbf)	4.9 (10.8)	4.2 (9.3)	5.9 (13.0)

