Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

Mating - Unmating Summary Report

PARTS DESCRIPTIONS

TERMINAL SIDE	SOCKET SIDE
BTE-020-01-F-D-A	BSE-020-01-F-D-A
BTE-060-01-F-D-A	BSE-060-01-F-D-A
BTE-120-01-F-D-A	BSE-120-01-F-D-A
REV: Q	REV: D
BTS-025-01-F-D-A	BSS-025-01-F-D-A
BTS-075-01-F-D-A	BSS-075-01-F-D-A
BTS-150-01-F-D-A	BSS-150-01-F-D-A
REV: B	REV: A
BTH-030-01-F-D-A	BSH-030-01-F-D-A
BTH-090-01-F-D-A	BSH-090-01-F-D-A
BTH-150-01-F-D-A	BSH-150-01-F-D-A
REV: K	REV: D
MIT-019-01-F-D-A	MIS-133-01-F-D-A
MIT-076-01-F-D-A	MIS-019-01-F-D-A
MIT-133-01-F-D-A	MIS-076-01-F-D-A
REV: C	REV: C
QTE-020-01-F-D-A	QSE-020-01-F-D-A
QTE-060-01-F-D-A	QSE-060-01-F-D-A
QTE-100-01-F-D-A	QSE-100-01-F-D-A
REV: X	REV: R
QTS-025-01-F-D-A	QSS-025-01-F-D-A
QTS-075-01-F-D-A	QSS-075-01-F-D-A
QTS-125-01-F-D-A	QSS-125-01-F-D-A
REV: A	REV: B
QTH-030-01-F-D-A	QSH-030-01-F-D-A
QTH-090-01-F-D-A	QSH-090-01-F-D-A
QTH-150-01-F-D-A	QSH-150-01-F-D-A
REV: N	REV: F

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products		Qty to test: 210	
Test Start: 3/29/02	Test Completed: 6/6/02		

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to IS0 10012-l and ANSI/NCSL 2540-1, as applicable.

SCOPE

To perform the following tests: Mating - Unmating

APPLICABLE DOCUMENTS

Standards: EIA Publication 364

TEST SAMPLES AND PREPARATION

1) All materials were manufactured in accordance with the applicable product specification.
2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
3) After soldering, the parts to be used for LLCR testing were cleaned according to TLWI-0001:
   a) Sample test boards are to be ultrasonically cleaned after test lead attachment, preparation and/or soldering using the following process.
   b) Immerse the sample test boards into the Branson 3510 cleaner which contains Kyzen Ionox HC1 (or equivalent) cleaning solution with the following conditions:
      i) Temperature: 55° C+/- 5° C
      ii) Frequency: 40 KHz
      iii) Immersion Time: 5 to 10 Minutes
   c) Sample test boards are then slowly removed and placed into the Branson 3510 cleaner which contains deionized water with the following conditions:
      i) Temperature: 55° C +/- 5° C
      ii) Frequency: 40 KHz
      iii) Immersion Time: 5 to 10 Minutes
   d) Sample test boards are then removed and placed in a beaker, on a hot plate with a magnetic stirrer containing deionized water warmed to 55° C +/- 5° C for 1/2 to 1 minute (Use 55° C as target)
   e) Upon removal, the sample test boards are then rinsed for 1/2 to 1 minute in room temperature free flowing deionized water.
   f) After the final rinse, the sample test boards are to be dried in an air-circulating oven for 10 to 15 minutes at 50° C +/- 5° C (Use 50° C as target)
   g) Sample test boards are then allowed to set and recover to room ambient condition prior to testing.
4) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
5) Any additional preparation will be noted in the individual test procedures.

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

ATTRIBUTE DEFINITION

Following is a brief, simplified description of the attribute measured.

MATING/UNMATING:

1) Reference document: EIA-364-13, *Mating and Unmating Forces Test Procedure for Electrical Connectors*.
2) The full insertion position was to within 0.003" to 0.004" of the plug bottoming out in the receptacle to prevent damage to the system under test.
3) One of the mating parts is secured to a floating X-Y table to prevent damage during cycling.
4) Mating/Unmating forces were evaluated on the first cycle.
5) Number of Samples tested: 5 per series

RESULTS BXX Series (data)

- **Mating Forces BXE Series Maximums**
  - **BXE 20 Positions** **57.1 oz.**
  - **BXE 60 Positions** **133.2 oz.**
  - **BXE 120 Positions** **246.2 oz.**

- **Unmating Forces BXE Series Maximums**
  - **BXE 20 Positions** **77.4 oz.**
  - **BXE 60 Positions** **142.1 oz.**
  - **BXE 120 Positions** **236.5 oz.**

- **Mating Forces BXS Series Maximums**
  - **BXS 25 Positions** **61.0 oz.**
  - **BXS 75 Positions** **179.8 oz.**
  - **BXS 150 Positions** **320.4 3 oz.**

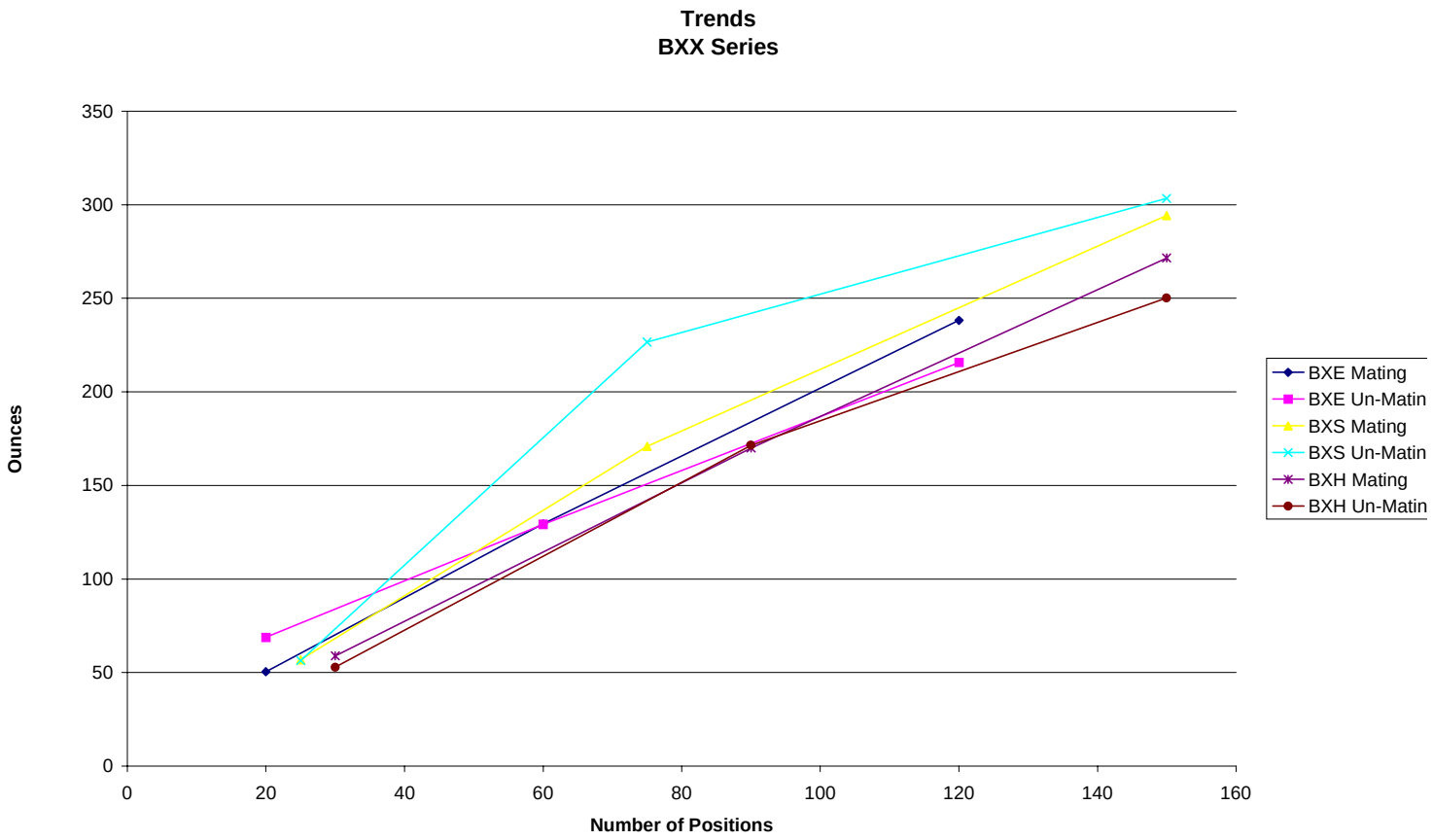
- **Unmating Forces BXS Series Maximums**
  - **BXS 25 Positions** **59.5 oz.**
  - **BXS 75 Positions** **234.7 oz.**
  - **BXS 150 Positions** **325.0 oz.**

- **Mating Forces BXH Series Maximums**
  - **BXH 30 Positions** **65.3 oz.**
  - **BXH 90 Positions** **175.5 oz.**
  - **BXH 150 Positions** **280.0 oz.**

- **Unmating Forces BXH Series Maximums**
  - **BXH 30 Positions** **66.6 oz.**
  - **BXH 90 Positions** **182.2 oz**
  - **BXH 150 Positions** **273.6 oz.**

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

RESULTS BXX Series (graphs)

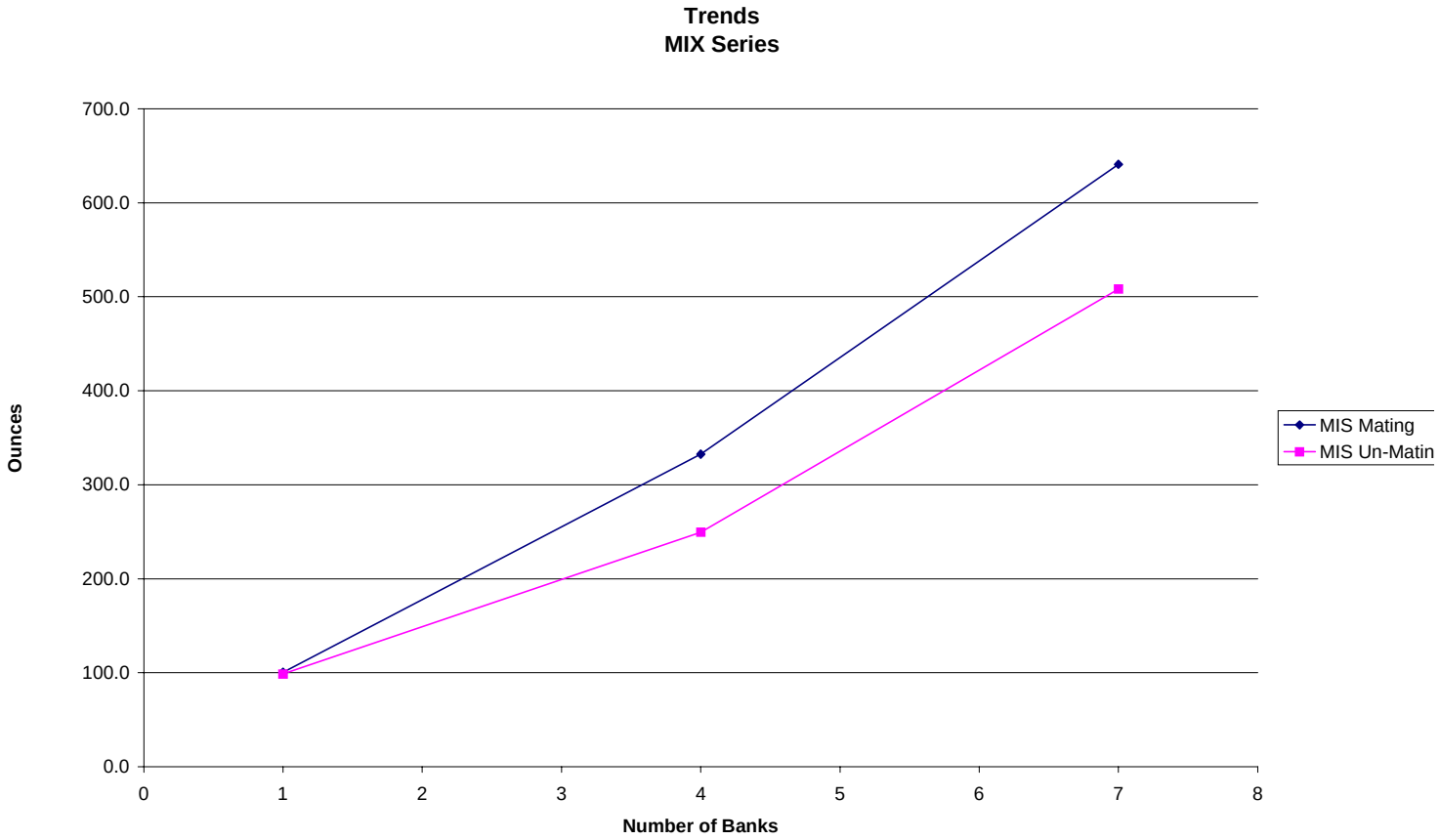


Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

RESULTS MIS Series (data)

- **Mating Forces MIS Series Maximums**
  - **MIS 1 Bank---------- 115.2 oz.**
  - **MIS 4 Bank---------- 360.5 oz.**
  - **MIS 7 Bank---------- 694.6 oz.**

- **Unmating Forces MIS Series Maximums**
  - **MIS 1 Bank---------- 109.3 oz.**
  - **MIS 4 Bank---------- 293.3 oz.**
  - **MIS 7Bank ---------- 541.1 oz.**



Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

RESULTS QXX Series (data)

- **Mating Forces QXE Series Maximums**
  - **QXE 1 Bank ----------60.0 oz.**
  - **QXE 3 Bank ---------- 163.8 oz.**
  - **QXE 5 Bank ---------- 287.2 oz.**

- **Unmating Forces QXE Series Maximums**
  - **QXE 1 Bank ----------64.2 oz.**
  - **QXE 3 Bank ---------- 169.3 oz.**
  - **QXE 5 Bank ---------- 302.1 oz.**

- **Mating Forces QXS Series Maximums**
  - **QXS 1 Bank ----------60.6 oz.**
  - **QXS 3 Bank ---------- 213.4 oz.**
  - **QXS 5 Bank ---------- 339.2 oz.**

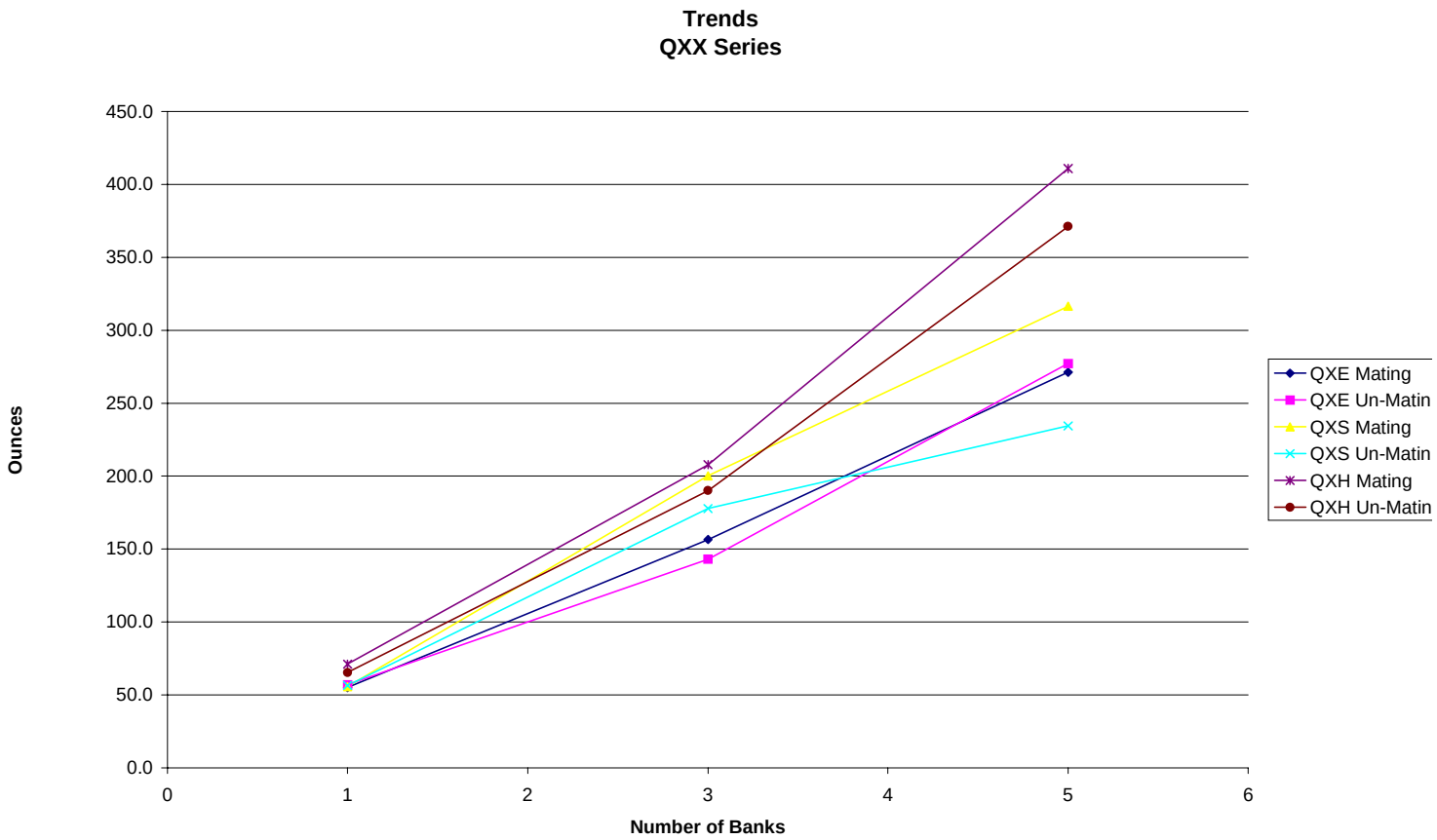
- **Unmating Forces QXS Series Maximums**
  - **QXS 1 Bank ----------62.7 oz.**
  - **QXS 3 Bank ---------- 187.4 oz.**
  - **QXS 5 Bank ---------- 264.3 oz.**

- **Mating Forces QXH Series Maximums**
  - **QXH 1 Bank----------72.0 oz.**
  - **QXH 3 Bank---------- 232.6 oz.**
  - **QXH 5 Bank---------- 434.6 oz.**

- **Unmating Forces QXH Series Maximums**
  - **QXH 1 Bank----------74.9 oz.**
  - **QXH 3 Bank---------- 213.3 oz.**
  - **QXH 5 Bank---------- 396.2 oz.**

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

RESULTS QXX Series (graphs)



Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA SUMMARY

MATING/UNMATING:

BXE Series

	20 Position				60 Position				120 Position			
	Mating		Ummating		Mating		Ummating		Mating		Ummating	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	48.3	3.0	59.0	3.7	123.0	7.7	118.7	7.4	224.3	14.0	190.4	11.9
Maximum	*57.1*	*3.6*	*77.4*	*4.8*	*133.3*	*8.3*	*142.1*	*8.9*	*246.2*	*15.4*	*236.5*	*14.8*
Average	***50.4***	***3.2***	***68.8***	***4.3***	***129.5***	***8.1***	***129.1***	***8.1***	***238.2***	***14.9***	***215.7***	***13.5***

BXS Series

	25 Position				75 Position				150 Position			
	Mating		Ummating		Mating		Ummating		Mating		Ummating	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	53.0	3.3	53.0	3.3	161.1	10.1	214.7	13.4	271.2	17.0	279.8	17.5
Maximum	*61.0*	*3.8*	*59.5*	*3.7*	*179.8*	*11.2*	*234.7*	*14.7*	*320.5*	*20.0*	*325.0*	*20.3*
Average	***56.8***	***3.5***	***56.4***	***3.5***	***170.8***	***10.7***	***226.6***	***14.2***	***294.3***	***18.4***	***303.4***	***19.0***

BXH Series

	30 Position				90 Position				150 Position			
	Mating		Ummating		Mating		Ummating		Mating		Ummating	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	49.4	3.1	44.3	2.8	166.9	10.4	141.6	8.9	260.5	16.3	221.3	13.8
Maximum	*65.3*	*4.1*	*66.6*	*4.2*	*175.5*	*11.0*	*182.2*	*11.4*	*280.0*	*17.5*	*273.6*	*17.1*
Average	***58.9***	***3.7***	***52.8***	***3.3***	***170.0***	***10.6***	***171.5***	***10.7***	***271.6***	***17.0***	***250.2***	***15.6***

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
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Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA SUMMARY continued

MATING/UNMATING:

MIS Series

	One Bank				Four Bank				Seven Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	81.0	5.1	85.9	5.4	303.2	19.0	203.2	12.7	579.7	36.2	457.1	28.6
Maximum	*115.2*	*7.2*	*109.3*	*6.8*	*360.5*	*22.5*	*293.3*	*18.3*	*694.6*	*43.4*	*541.1*	*33.8*
Average	***100.3***	***6.3***	***98.7***	***6.2***	***332.5***	***20.8***	***249.5***	***15.6***	***641.0***	***40.1***	***508.3***	***31.8***

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA SUMMARY continued

MATING/UNMATING:

QXE Series

	One Bank				Three Bank				Five Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	52.2	3.3	53.3	3.3	151.4	9.5	117.0	7.3	259.7	16.2	261.1	16.3
Maximum	*60.0*	*3.8*	*64.2*	*4.0*	*163.8*	*10.2*	*169.3*	*10.6*	*287.2*	*18.0*	*302.1*	*18.9*
Average	***55.0***	***3.4***	***57.0***	***3.6***	***156.6***	***9.8***	***143.1***	***8.9***	***271.3***	***17.0***	***277.3***	***17.3***

QXS Series

	One Bank				ThreeBank				Five Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	51.8	3.2	48.3	3.0	179.8	11.2	157.9	9.9	301.8	18.9	201.4	12.6
Maximum	*60.6*	*3.8*	*62.7*	*3.9*	*213.4*	*13.3*	*187.4*	*11.7*	*339.2*	*21.2*	*264.3*	*16.5*
Average	***55.6***	***3.5***	***56.4***	***3.5***	***200.2***	***12.5***	***177.7***	***11.1***	***316.5***	***19.8***	***234.4***	***14.7***

QXH Series

	One Bank				Three Bank				Five Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
Minimum	69.6	4.4	57.1	3.6	193.6	12.1	169.4	10.6	395.0	24.7	347.0	21.7
Maximum	*72.0*	*4.5*	*74.9*	*4.7*	*232.6*	*14.5*	*213.3*	*13.3*	*434.6*	*27.2*	*396.2*	*24.8*
Average	***71.1***	***4.4***	***65.2***	***4.1***	***207.8***	***13.0***	***190.1***	***11.9***	***410.9***	***25.7***	***371.2***	***23.2***

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA

MATING/UNMATING:

BXE Series

Test Date:	5/29/2002	5/29/2002	5/29/2002
Operator:	GL	GL	GL
Temperature (C):	25	25	25
Humidity (RH):	39%	39%	39%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	BSE/BTE	BSE/BTE	BSE/BTE
Contact Mates With:			

	20 Position				60 Position				120 Position			
	Mating		Ummating		Mating		Ummating		Mating		Ummating	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	48.5	3.0	65.4	4.1	131.5	8.2	118.7	7.4	224.3	14.0	204.3	12.8
2	48.8	3.1	70.4	4.4	130.2	8.1	124.8	7.8	243.5	15.2	190.4	11.9
3	57.1	3.6	77.4	4.8	129.4	8.1	129.3	8.1	245.6	15.4	233.6	14.6
4	49.3	3.1	59.0	3.7	133.3	8.3	142.1	8.9	231.4	14.5	213.8	13.4
5	48.3	3.0	71.7	4.5	123.0	7.7	130.7	8.2	246.2	15.4	236.5	14.8

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA continued

MATING/UNMATING:

BXS Series

Test Date:	5/29/2002	5/29/2002	5/29/2002
Operator:	GL	GL	GL
Temperature (C):	25	25	25
Humidity (RH):	37%	37%	37%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	BSS/BTS	BSS/BTS	BSS/BTS
Contact Mates With:			

	25 Position				75 Position				150 Position			
	Mating		Ummating		Mating		Ummating		Mating		Ummating	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	53.0	3.3	55.8	3.5	179.8	11.2	232.0	14.5	320.5	20.0	324.2	20.3
2	61.0	3.8	58.1	3.6	171.8	10.7	234.7	14.7	271.2	17.0	289.6	18.1
3	56.0	3.5	53.0	3.3	177.3	11.1	225.3	14.1	287.7	18.0	279.8	17.5
4	56.8	3.6	55.5	3.5	161.1	10.1	226.2	14.1	289.3	18.1	298.6	18.7
5	57.1	3.6	59.5	3.7	164.0	10.3	214.7	13.4	302.9	18.9	325.0	20.3

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA continued

MATING/UNMATING:

BXH Series

Test Date:	6/6/2002	6/6/2002	6/6/2002
Operator:	GL	GL	GL
Temperature (C):	25	25	25
Humidity (RH):	38%	38%	38%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	BSH/BTH	BSH/BTH	BSH/BTH

	30 Position				90 Position				150 Position			
	Mating		Ummating		Mating		Ummating		Mating		Ummating	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	65.3	4.1	46.1	2.9	167.4	10.5	182.2	11.4	277.4	17.3	221.3	13.8
2	64.6	4.0	66.6	4.2	175.5	11.0	141.6	8.9	270.7	16.9	258.2	16.1
3	49.4	3.1	56.5	3.5	166.9	10.4	174.4	10.9	269.6	16.9	272.0	17.0
4	59.5	3.7	44.3	2.8	169.4	10.6	178.9	11.2	280.0	17.5	273.6	17.1
5	55.7	3.5	50.4	3.2	170.6	10.7	180.2	11.3	260.5	16.3	225.9	14.1

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA continued

MATING/UNMATING:

MIS Series

Test Date:	5/30/2002	5/30/2002	5/30/2002
Operator:	GL	GL	GL
Temperature (C):	21	21	21
Humidity (RH):	48%	48%	48%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	MIS/MIT	MIS/MIT	MIS/MIT
Contact Mates With:			

	One Bank				Four Bank				Seven Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	81.0	5.1	85.9	5.4	332.0	20.8	293.3	18.3	598.2	37.4	457.1	28.6
2	100.8	6.3	109.3	6.8	337.1	21.1	231.4	14.5	677.8	42.4	535.2	33.5
3	115.2	7.2	91.0	5.7	303.2	19.0	203.2	12.7	654.7	40.9	510.4	31.9
4	102.1	6.4	107.4	6.7	360.5	22.5	276.5	17.3	694.6	43.4	541.1	33.8
5	102.4	6.4	99.7	6.2	329.8	20.6	243.4	15.2	579.7	36.2	497.6	31.1

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA continued

MATING/UNMATING:

QXE Series

Test Date:	6/3/2002	6/3/2002	6/3/2002
Operator:	GL	GL	GL
Temperature (C):	21	21	21
Humidity (RH):	51%	51%	51%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	QSE/QTE	QSE/QTE	QSE/QTE

	One Bank				Three Bank				Five Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	58.2	3.6	56.3	3.5	Lbs	Oz	Lbs	8.0	Lbs	Oz	Lbs	16.3
2	60.0	3.8	64.2	4.0	Lbs	Oz	Lbs	7.3	Lbs	Oz	Lbs	18.9
3	52.3	3.3	53.3	3.3	Lbs	Oz	Lbs	9.4	Lbs	Oz	Lbs	17.2
4	52.2	3.3	56.0	3.5	Lbs	Oz	Lbs	9.4	Lbs	Oz	Lbs	16.9
5	52.2	3.3	55.0	3.4	Lbs	Oz	Lbs	10.6	Lbs	Oz	Lbs	17.4

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA continued

MATING/UNMATING:

QXS Series

Test Date:	5/31/2002	5/31/2002	5/31/2002
Operator:	GL	GL	GL
Temperature (C):	21	21	21
Humidity (RH):	45%	45%	45%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	QSS/QTS	QSS/QTS	QSS/QTS

	One Bank				Three Bank				Five Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	57.8	3.6	57.8	3.6	210.6	13.2	187.4	11.7	319.8	20.0	255.5	16.0
2	54.1	3.4	48.3	3.0	197.4	12.3	182.1	11.4	301.8	18.9	243.5	15.2
3	60.6	3.8	62.7	3.9	199.8	12.5	178.7	11.2	306.1	19.1	201.4	12.6
4	53.8	3.4	57.0	3.6	179.8	11.2	157.9	9.9	339.2	21.2	264.3	16.5
5	51.8	3.2	56.5	3.5	213.4	13.3	182.6	11.4	315.5	19.7	207.4	13.0

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

DATA continued

MATING/UNMATING:

QXH Series

Test Date:	5/31/2002	5/31/2002	5/31/2002
Operator:	GL	GL	GL
Temperature (C):	25	25	25
Humidity (RH):	36%	36%	36%
Equipment Code Number	59	59	59
Load Cell Code Number	60	60	60
Readout Code Number			
Contact Description			
Contact Used In:	QSH/QTH	QSH/QTH	QSH/QTH

	One Bank				Three Bank				Five Bank			
	Mating		**Ummating**		**Mating**		**Ummating**		**Mating**		**Ummating**	
Sample#	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs	Oz	Lbs
1	71.8	4.5	57.1	3.6	198.6	12.4	206.1	12.9	408.8	25.6	382.9	23.9
2	72.0	4.5	63.4	4.0	208.2	13.0	186.1	11.6	409.0	25.6	374.6	23.4
3	70.4	4.4	66.9	4.2	206.2	12.9	213.3	13.3	407.2	25.5	347.0	21.7
4	71.8	4.5	64.0	4.0	232.6	14.5	175.5	11.0	395.0	24.7	355.4	22.2
5	69.6	4.4	74.9	4.7	193.6	12.1	169.4	10.6	434.6	27.2	396.2	24.8

Project Number: NA	Tracking Code: 0212--0640		
Requested by: W. Ouyang	Date: 3/22/02	Product Rev: See Front Page	
Part #: See Front Page	Lot #: 03/18/02	Tech: G.Lewis	Eng: J. Tozier
Part description: 0.8mm, 0.635mm, 0.5mm Quiet & Basic High Speed Products			Qty to test: 210
Test Start: 3/29/02	Test Completed: 6/6/02		

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: 59
Description: Dillon Quantrol TC2 Test Stand
Manufacturer: Dillon Quantrol
Model: TC2
Serial #: 02-1033-03
Accuracy: Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.
… Last Cal: 03/21/02, Next Cal: 03/21/03

Equipment #: 60
Description: 2500 N Load Cell for Dillon Quantrol
Manufacturer: Dillon Quantrol
Model: icell
Serial #: 01-0132-01
Accuracy: .10% of capacity
… Last Cal: 3/21/02, Next Cal: 3/21/03