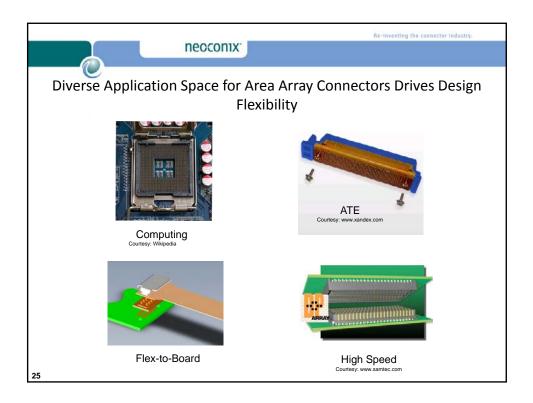
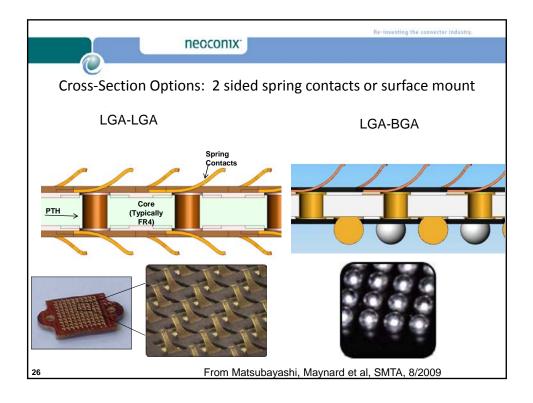
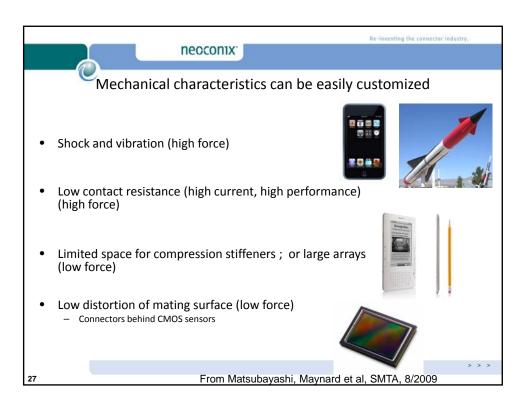
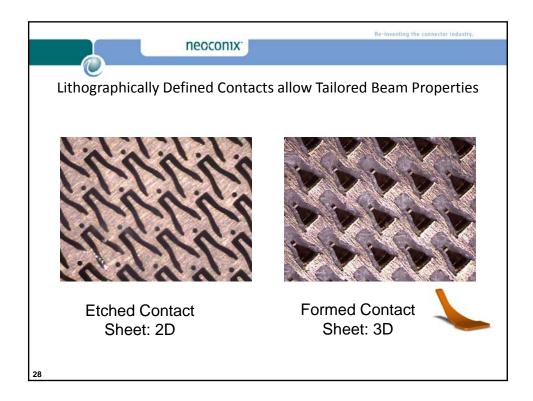


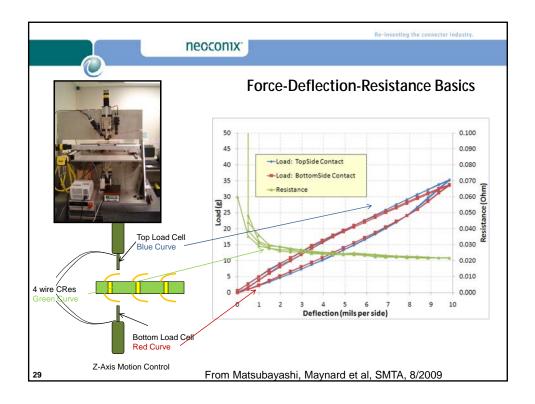
C	Neoconix F	Reliability Testir	ig Si	ummary
		-	-	-
Test	Conditions	Criteria	Result	Reference Spec.
Insulation Resistance	IR→T&H ¹ Cycle→IR; 100V	>1 E +11 Ω	PASS	EIA 364-21C
Dielectric Breakdown	DWV→T&H ¹ Cycle→DWV	>1 E +11 Ω @ >100V	PASS	EIA 364-20C
Temperature Life	2,500 hours @ 105°C	< 10mΩ ↑ / contact	PASS	EIA 364-17B TC 4F
Temperature Life	1,000 hours @ 125°C	< 10mΩ ↑ / contact	PASS	EIA 364-17B TC 5D
Accel. Thermal Cycling	2,000 cycles 0-105°C	< 10mΩ ↑ / contact	PASS	Customer Specification
Temperature & Humidity	500 hrs 80°C, 80% RH	< 10mΩ ↑ / contact	PASS	Customer Specification
Cyclic Humidity	See reference specifications	< 10mΩ ↑ / contact	PASS	EIA 364-28E, TC 1
Operating Temperature	-80°C to +125°C	< 15% Ω change vs. RT	PASS	Customer Specification
Shock & Vibration	50G 3 axis, 11.3 ft/s; 7.3G, 50-2K Hz	< 10m Ω \uparrow & <10 ns interrupt	PASS	EIA 364-27B TC A, 364-28E TC
Salt Spray Testing	96 hr, 5% NaCl, 35°C after Precon. ²	< 10m Ω \uparrow / contact; <15m Ω	PASS	Precon ² , EIA 364-26B TC A
Mixed Flowing Gas	10 days mated, 10 days unmated	< 10mΩ ↑ / contact	PASS	EIA364 TP 65
High Cycle Durability	12,000 cycles full compression	< $10m\Omega \uparrow$ / contact; <25m Ω ; < 15% \downarrow in force/deflection	PASS	EIA 364-09C. Test stopped at cycles with no failures.
<u></u>				cycles with no failures.
Notes:				
140 to 70°C, 10 to 95% R	4			
Salt Spray Precondition:				
a. Vibration per EIA 364-2	•			
b. Cyclic Humidity per FIA	364-31B, TC A, Method IV 96 hours			

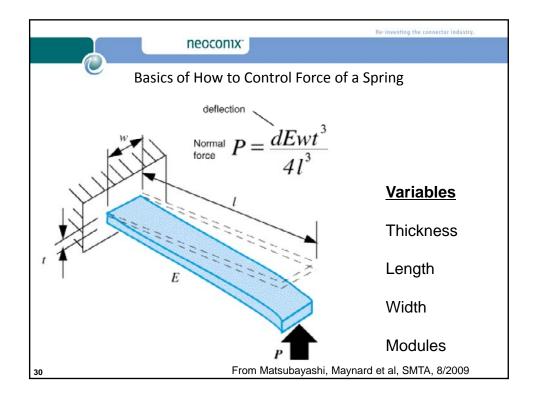




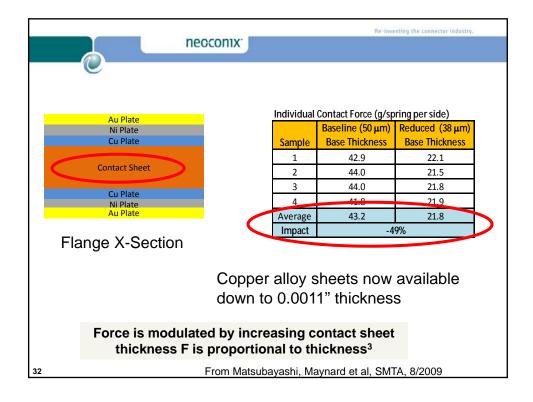


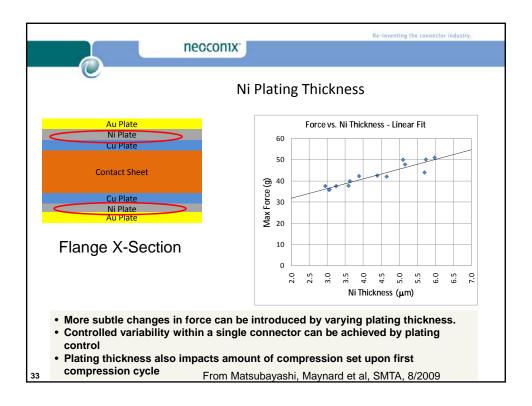


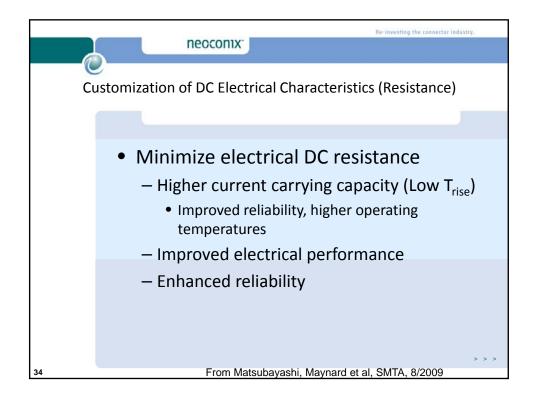


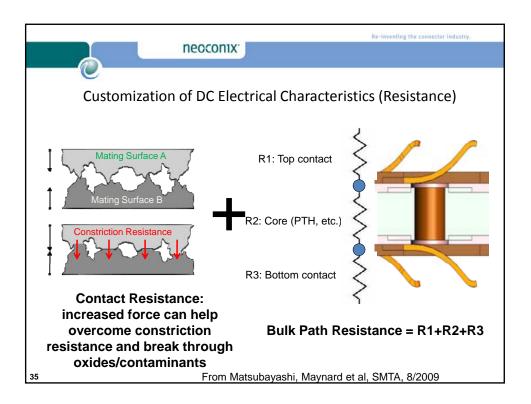


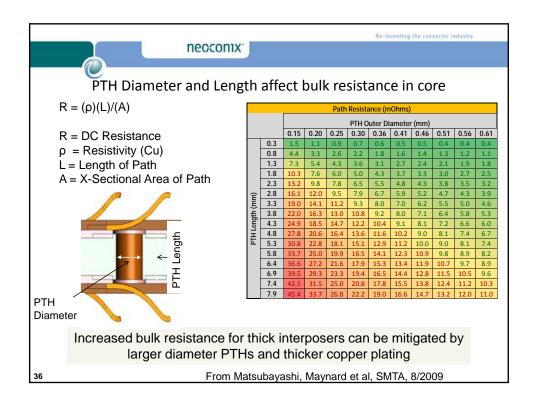
	neoconix [.]		Re-inventing the	connector industry.	
e	Contact Geom	netry (E	Beam Width)		
	Tip Width = 0.25mm	Individual Contact Force (g/spring per side)			
	(Wider Beam)	Sample	Baseline Beam	Wider Beam	
Tip Width = 0.18mm (Baseline Beam)		1	42.9	52.3	
		2	44.0	53.3	
		3	44.0	50.4	
		4	41.8	50.9	
Mark and a state		Average	43.2	51.7	
	Baseline Beam	Impact	204	%	
	Wide Beam	va	An infinite nur riations in flange can be achiev lithographic teo	e geometry ed with	
31	From Matsubaya	shi, Mayr	nard et al, SMTA, 8/2	2009	

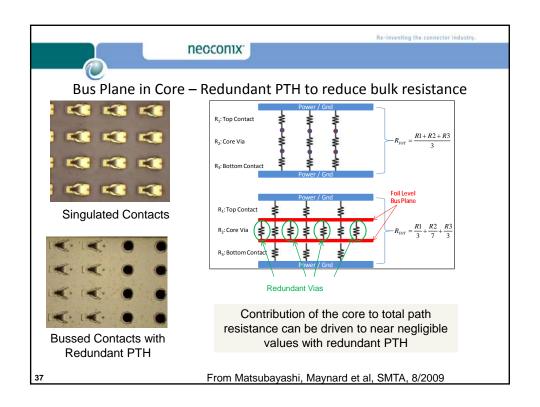


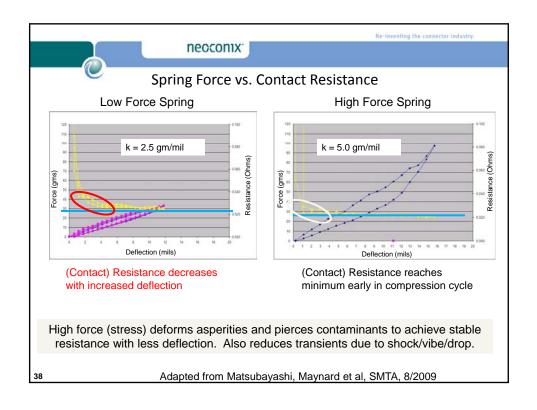


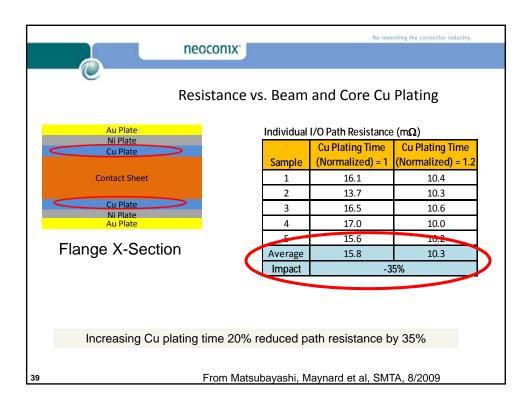




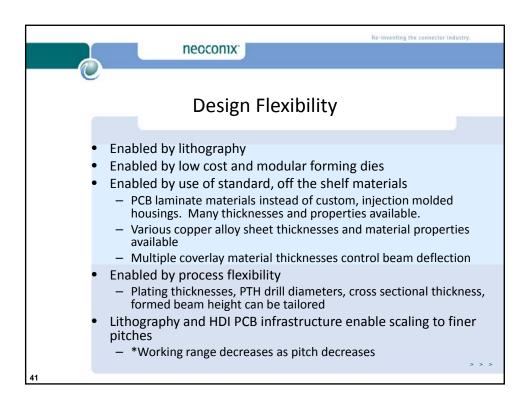




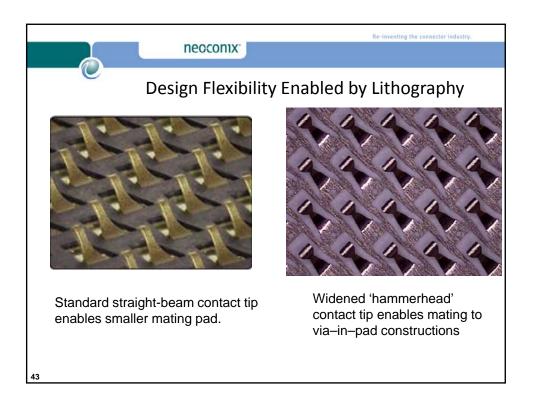


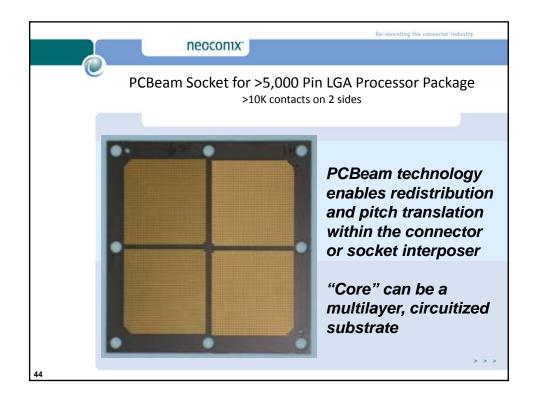


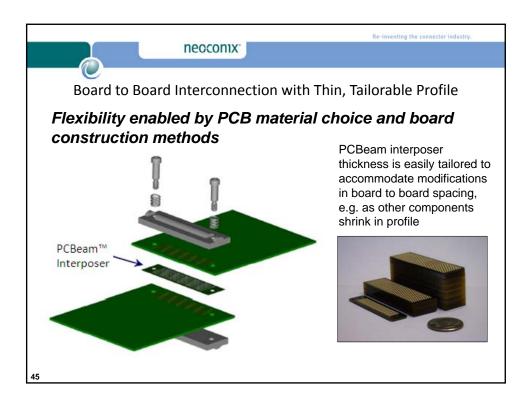
	Summary: De	sign Flexibi	ility vs.	Perform	ance
	Input	Primary Influence	Force (Mech)	Resistance (DC Elec)	Current Capacity (DC Elec)
Cont	↑ Beam Thickness	Force	Û	Û	仓
Contact Design	↑ Beam Width	Force	Û	Û	仓
esign	↑ Ni Thickness	Force	Û	Û	仓
Core	↑ Interposer Thickness	DC Resistance	0	Û	Û
Design	↑ PTH Diameter	Bandwidth	0	Û	Û
В	↑ Redundant Via	DC Resistance	0	Û	Û
Both	↑ Cu Thickness	DC Resistance	仓	Û	仓











	neoconix	Re-inventing the connector industry.				
60 Pin Smart Phone Board to Board Interconnect: Neoconix Proposa						
Item	Current Interconnect	Neoconix Interconnect				
Design	Double, 2pc Board-to-Board with Flex Jumper	Single, 1pc Board-to-Board without Flex				
Footprint	52 mm ² (occupies <i>both sides</i> of mother board)	44 mm ² or less				
Thickness	3.86 mm	Eliminate 1.77 mm on back of MB. Interposer can be any thickness.				
Cost	Two 2 pc. connectors; 2 layer flex; flex SMT process; stiffeners and elastomer pad.	Eliminates many components, simplifies assembly, improves yield. Eliminating flex may reduce # ground pins required.				

