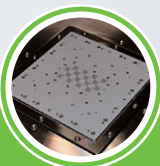




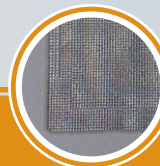
400 to 170μm
WLCSP



170 to 110μm
Flip Chip



120 to 55μm
Cu Pillar



Pad applications
down to 54μm



High Pin Count
& Parallelism

High
Frequency



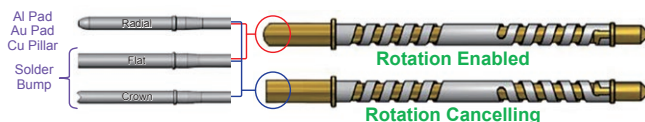
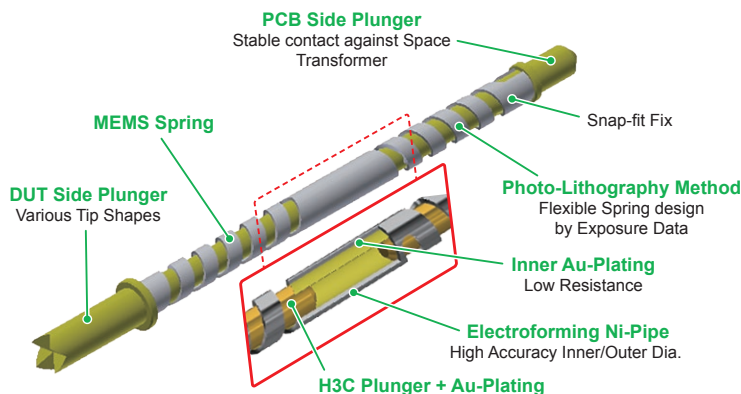
High Current

High
Temperature



Flexible Pin Design

Force, Overdrive, Length & Tip Style for Application Optimization



Probecard Technology Specsrefer	P300	P200	P147	P120	P90	P80	P70	P60	P55
Minimum Pitch (μm)	280μm	170μm	130μm	110μm	90μm	80μm	70μm	60μm	55μm
Technology Status (HVM/Pilot/Development)	HVM	HVM	HVM	HVM	HVM	HVM	HVM	HVM	IN development
Probe Tip Shape	Radius/Flat/Crown	Radius/Flat/Crown	Radius/Flat/Crown	Radius/Flat/Crown	Radius/Flat/Crown	Radius/Flat/Crown	Radius/Flat/Crown	Radius	Radius
Probe Tip Size (μm)	F=190μm, P=10μm+/-3, C=190μm	F=105μm, P=10μm+/-3, C=105μm	F=72μm, P=10μm+/-3, C=72μm	F=60μm, P=10μm+/-3, C=60μm	F=45μm, P=10μm+/-3, C=45μm	F=40μm, P=10μm+/-3, C=40μm	F=35μm, P=10μm+/-3, C=35μm	P=10μm+/-3	-
Radial Alignment (μm)	R - 8μm	R - 8μm	R - 8μm	R - 8μm	R - 8μm	R - 8μm	R - 8μm	R - 10μm	-
	F - 15μm	F - 15μm	F - 15μm	F - 15μm	F - 15μm	F - 15μm	F - 15μm	-	-
	C - 15μm	C - 15μm	C - 15μm	C - 15μm	C - 15μm	C - 15μm	C - 15μm	-	-
Maximum probe tip planarity (μm)	<5000 - 20μm	<5000 - 20μm	<5000 - 20μm	<5000 - 20μm	<5000 - 20μm	<5000 - 20μm	<5000 - 20μm	<5000 - 20μm	-
	>5000 - 25μm	>5000 - 25μm	>5000 - 25μm	>5000 - 25μm	>5000 - 25μm	>5000 - 25μm	>5000 - 25μm	>5000 - 25μm	-
Recommended Over Travel (OT) (μm, from last electrical touch)	100μm	100μm	100μm	100μm	100μm	100μm	100μm	100μm	-
Maximum Over Travel (OT) (μm, from last electrical touch)	175μm (Customizable)	175μm (Customizable)	150μm (Customizable)	100μm (Customizable)	175μm (Customizable)	175μm (Customizable)	150μm (Customizable)	120μm	-
Probe Force at maximum OT (gf) (Also Customizable)	6.3g	6.2g	4.0g	5.4g	5.4g	5.4g	5.4g	4.1gF	-
ISMI Max DC Current (mA @20% force drop)	2800mA	2100mA	1300mA	1200mA	900mA	800mA	700mA	620mA	-
MAC - Maximum Allowable Current (mA @no initial contact height loss, std 2 minutes)	2500mA	1900mA	1200mA	1000mA	800mA	750mA	650mA	540mA	-
Tip extension length (μm)	F=600μm, R&C=330μm	F=600μm, R&C=330μm	F=600μm, R&C=330μm	F=600μm, R&C=330μm	F=600μm, R&C=330μm	F=600μm, R&C=330μm	F=600μm, R&C=330μm	R=250μm	-