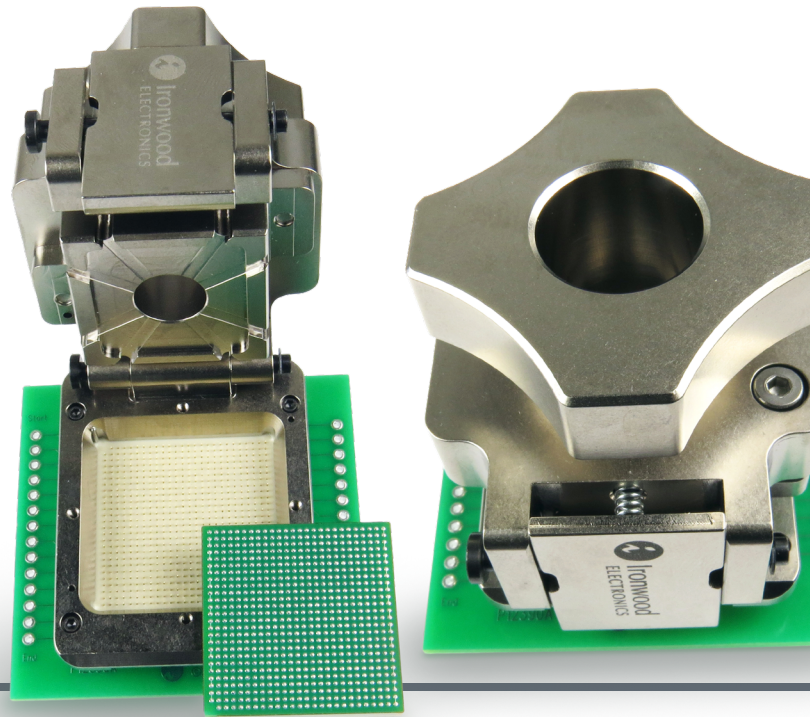




Ironwood
ELECTRONICS

Stamped Spring Pin Sockets for High Speed Applications

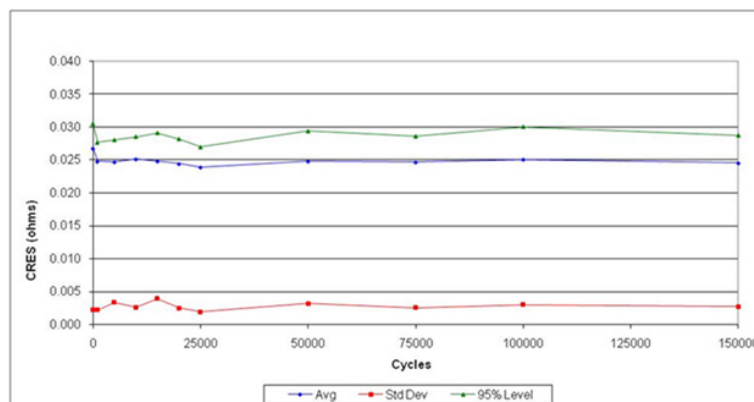


Stamped Spring Pin (SBT) sockets excel in both high insertion count and demanding thermal requirements. The SBT contact is a stamped contact with an external spring and a connecting inner leaf spring. SBT sockets offer low cost and better electrical/mechanical performance than conventional pogo pin sockets while providing a robust solution for Burn-in & Test applications.

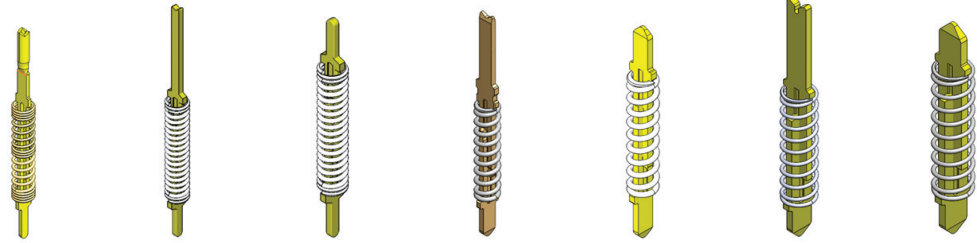
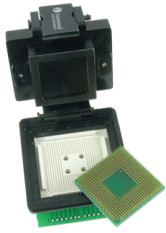
FEATURES AND BENEFITS

Long Contact Travel	Compliance for large package warpage
Gold plated BeCu material	High temperature applications
Small Socket Footprint	Easy to place inductors, capacitors, resistors, etc. for tuning and increasing bandwidth. Ideal for IC prototype and system testing and field upgradeable system designs
High Resilient Spring	Compression cycles in hundreds of thousands
Optimized Pin Diameter to Length Ratio	Impedance matched high speed applications
Stamped Contact	High current applications
Automated assembly	Low cost, short lead time

MECHANICAL PERFORMANCE: 0.5MM PITCH PIN



PIN SPECIFICATION



Pin Family	SBT	SBT	SBT	SBT	SBT	SBT	SBT
Part Number	P-P204A	P-P185A	P-P184A	P-P196A	P-P150A	P-P151A	P-P152A
Minimum Pitch (mm)	0.35	0.4	0.4	0.5	0.5	1.0	1.0
Pin Type	BGA	BGA	LGA	BGA	LGA	BGA	LGA
Length (mm)	3.46	3.81	2.9	3.86	2.95	5.69	4.45
DUT Side Tip Shape	Crown	V Shape	Radius Cone	V Shape	Radius Cone	Notched V	Radius Cone
DUT Side Tip Dimension (mm)	0.17	0.14	0.12	0.2	0.06	0.54	0.1
PCB Side Tip Shape	Radius Cone	Radius Cone	Radius Cone	Radius Cone	Radius Cone	Radius Cone	Radius Cone
PCB Side Tip Dimension (mm)	0.12	0.12	0.12	0.04	0.06	0.1	0.1
DUT Side Travel (mm)	0.3	0.5	0.3	0.33	0.33	0.6	0.6
PCB Side Travel (mm)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Force (g)	8.7	17	14.5	30	30	19	19
Cres (mΩ)	<70	<50	<50	<30	<30	<15	<15
CCC @ ambient (Amps)	0.5	1.8	1.8	2.9	2.9	4.0	4.0
Bandwidth (GHz @ -1dB)	23.5 - 26.1	20.5 - 31.7	20.5 - 31.7	5.2 - 15.7	5.2 - 15.7	14.1 - 21.9	14.1 - 21.9
Self inductance (nH)	0.92	0.98	0.98	0.88	0.88	0.93	0.93
Temperature (°C)	-55 to +180	-55 to +180	-55 to +180	-55 to +180	-55 to +180	-55 to +180	-55 to +180
Insertion Cycles	50K	50K	50K	500K	500K	500K	500K

* 0.4mm/0.5mm pitch SBT pins are used in 0.65mm and 0.8mm pitch applications

** Bandwidth range is based on pin location (corner, edge, field). See report for test conditions and set up.

ELECTRICAL PERFORMANCE: 0.4MM PITCH PIN

