



**High Performance
Sockets & Adapters**
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Socket ^{^^^} Technologies	Pitch ^{^^^} (mm)	Bandwidth (GHz) -1dB insertion loss	Self Inductance (nH)	Life Cycle ^{****} (# of insertions)	Operating Temperature (deg C)	Continuous current capacity (A) @<20C rise	Avg Contact resistance (mOhms)	Force per pin (g)
SG-6xxx (Elastomer)	0.8 - 1.27	27*	0.15**	2K	-35 to +100	2^	25	30
SG-7xxx (Elastomer)	0.5 - 0.75	30.5	0.11	2K	-35 to +100	2^	25	30
SG-8xxx (Elastomer)	0.8 - 1.27	30.5	0.11	2K	-35 to +100	2^	25	30
SG-9xxx (Elastomer)	0.65 - 0.75	30.5	0.11	2K	-35 to +100	2^	30	30
SG15-1xxx (Elastomer)	0.3 - 0.5	56.8	0.06	2K	-35 to +100	1^	30	40
SG25-2xxx (Elastomer)	0.3 - 0.75	52.4	0.06	2K	-35 to +100	1^	30	40
SM-9xxx (Elastomer)	0.4 - 1.27	44.8	0.1	1K	-55 to +155^^	4	30	70
SMP-8xxx (Elastomer)	0.4 - 1.27	40	0.33	500K	-55 to +155	4	30	70
GT-xxxx (Elastomer)	0.2 - 0.5	75***	0.04	1K	-55 to +160^^	5	30	70
GT-xxxx (Low Force Elastomer)	0.5 - 1.27	75***	0.04	1K	-55 to +160^^	5	30	35
SBT-0.35mm (Spring pin)	0.35 - 0.4	24.7	0.92	50K	-55 to +180	1	65	8.7
SBT-0.4mm (Spring pin)	0.4 - 0.5	31.7	0.75	50K	-55 to +180	1.5	35	17
SBT-0.5mm (Spring pin)	0.5 - 0.8	15.7	0.88	500K	-55 to +180	3	35	31
SBT-1.0mm (Spring pin)	1.0 - 1.27	21.9	1.04	500K	-55 to +180	4	35	19

*	Simulated data
**	Linear extrapolated data
***	Simulated data; Measured value >40GHz
****	Contact life is influenced by introduction of bias to the IC, plating of the IC leads, cleanliness of IC leads and migration of solder from device to contact tips which will have an impact in the degradation of the contact performance/life
^	Theoretical value based on 250mA per wire
^^	In some cases socket will experience IC sticking issue for temperature tests above 60°C. After test, device will get stuck on the elastomer and may require tweezers to release the IC from the socket.
^^^	General guideline. Ironwood Apps engineer will determine right technology based on the POD details.
^^^^	Sockets available with swivel lid, clamshell lid, spring loaded snap lid, lever actuated lid. Ironwood Apps engineer will determine right option based on pin count and application requirement.