

Technical information : SURFACE METAL CONTACTS

Description:

These types of contacts (SMT or bulk, standard or custom) can provide a **flexible connection** for ground contact, battery contact, antenna contact... on PCBs. They are assembled by **pick and place** (SMT process). Our design department can analyze the mechanical design requirements before proposing any type of SMT metal contact in your application.

Material	Beryllium Copper or alloy, stainless steel, thermal treatment process
Manufacturing processes	Cutting and folding using automated press machines
Packaging	Thermoformed tray or rolls for pick and place
Options	-
Prototyping	With soft tooling for the validation stage

Properties	Units	Values
Density	g/cm ³	8.36
Elastic Modulus	Kg/mm ²	13.4
Thermal Expansion Coefficient – 20°C ~ 200 m/m/°C	-	9.7 x 10 ⁻⁶
Thermal conductivity	cal/(cm.s.°C)	0.25
Melting temperature	°C	870 ~ 980
Heat treatment	-	315°C, Hrs
Tensile strength	kg/mm ²	130 ~ 152
Yield strength	kg/mm ²	112 ~ 138
Elongation percent	-	1 – 8
Hardness	Diamond Pyramid - after heat treatment	373 ~ 435
Electrical conductivity percent	IACS - %	22 ~ 28