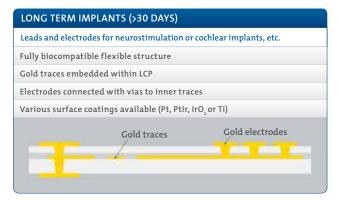


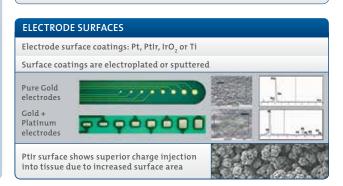
Biocompatible dielectrics with embedded noble metal conductors provide a fully biocompatible platform for applications such as diagnostics, neurostimulation, implantable electrodes, catheters, sensors and actors.

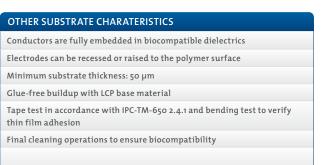
## SHORT TERM IMPLANTS (c30 DAYS) Catheters, blood glucose sensors, etc. Hybrid buildup Standard Copper based PCB technology for electronics Biocompatible materials and conductors for implanted part Thick Cu Thin metal high resolution Flexible thin base material Via



## BIOCOMPATIBLE BASE MATERIALS LCP (Liquid Crystal Polymer), PI (Polyimide), Glass The properties of LCP are especially capable for direct implantables: Very flexible thermoplast; can be transfer molded to various shapes Fully biocompatible according to ISO 10993–5 (in vitro cytotoxicity) Near-hermetic due to very low water absorption (< 0.04%) Temperature stable up to 190°C; density: 1.4 g/cm³ Production panel size of 18" x 12" enables large substrates









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**Fechnologies** 

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mail.dyconex@mst.com www.mst.com/dyconex Based in Switzerland, DYCONEX has been in the PCB business for 50 years and delivers leading-edge interconnect solutions in flex, rigid-flex and rigid technology. DYCONEX core competence lies in the production of highly complex HDI, high-frequency and high-reliability circuit boards for medical, defense, aerospace, industrial and semiconductor applications. DYCONEX is an MST company.



Micro Systems Technologies engineering for life

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