LTCC – Multi layer ceramics

Special requirements for electronic circuits that conventional board technologies can not cover require the benefits of ceramic substrates:

ADVANTAGES OF LTCC
- Wide temperature range (-100° C ... > 200° C)
- Long-term stability (> 20 years)
- High mechanical strength
- Resistance to plasma or ion bombardment
- High degree of miniaturization – 3-D functions such as cavities, stepped bonding shelves, channels and membranes
- High frequency stability
- Permanent hermeticity

Compared to conventional circuit carriers, e.g. FR4, LTCC technology can meet exactly these requirements. The advantage of the material properties is the resistance against many environmental conditions.

Fields of application for LTCC

The exceptionally robust ceramic carrier material is suitable for high temperature ranges and frequencies. Therefore, LTCC circuits are used in aerospace, telecom, automotive, traffic, defense, medical, radar and sensor technology and convince by stability and reliability. The multilayer technology offers the highest possible system integration.

ADDED VALUE
- Design & Engineering
- Development
- Inhouse production of LTCC substrates

Find more information about our products at www.micro-hybrid.de

Contact us contact@micro-hybrid.de
With more than 20 years of experience in the development and production of electronic Micro Systems, Micro-Hybrid Electronics is one of the world’s leading manufacturers of high-quality electronic micro systems. Our customers benefit from our single source services that cover the entire supply chain. We offer individual development and production of electronics according to the application’s requirements.

Micro-Hybrid is a company of Micro-Epsilon Group.

Customer specific Micro Systems

Contact us for an individual technology consulting.

MICRO-HYBRID ELECTRONIC GMBH
Heinrich-Hertz-Str. 8
07629 Hermsdorf | Germany

T +49 36601 592-0
contact@micro-hybrid.de
www.micro-hybrid.de

International sales and distribution offices

**North America**
Jeff Baymor
Jeff.Baymor@nova-ir.com
T +1 520 3497686

**Russia**
Andreas Haustein
a.haustein@micro-hybrid.de
Mobile +7 915 326 84 81

**China**
Lisa Wen
quing.cheng@live.cnw
T +49 36601 592-239