

# World of PCB

kubatronik  
leiterplatten GmbH

Engineering

Quickturn

Prototyping

Components

Mass-Production

Assembly (PCBA)



[www.kubatronik.de](http://www.kubatronik.de)

# Made in Germany

kubatronik  
leiterplatten GmbH



Established in 1980



Production in Geislingen / Steige (Germany)



55 Employees



Focus on High-Technology Rigidflex, Flex and HDI  
with High-Mix and Low-Volume



Quickturn and Express Production



Full Service and Complete Solutions (Components / PCBA)



Qualified and certified longtime Business-Partners  
for Mass Production and Assembly

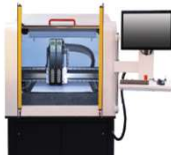
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# News

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Installation of completely new Direct Imaging System „Direct Imager 2050L Class MIVA 2050L DI“ in May, 2019 for Inner- / Outerlayer and Soldermask.



Installation of completely new IT Infrastructure, Operating System (Hardware and Software) and Phone System (IP based) in May-June, 2019.



Installation of completely new Spray Coating System „Pluritec – Ecospray“ and „Pluritec EcoDryer“ in October, 2019.



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# News

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Installation of a second Direct Imaging System  
„Direct Imager 2050L Class MIVA 2050L DI“ with two heads  
in 2021 for Inner- / Outerlayer and Soldermask.



Installation of a „Free Form Scoring Machine - LENZ SLG“  
in 2021.



Installation of a X-RAY fluorescence XRF analysis system  
„Fischerscope XRAY XUL 220“ in 2021.



DIN EN ISO 9001:2015 (latest review)



DIN EN ISO 14001 (Environmental Management)



AS 9100 (Aerospace and Defence)

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# Investments – 2022 / 2023

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Soda Developer for Soldermask



Additional Pressing System



Cooling and climatization in the area of Pressing and Plasma



Additional ATG Electrical Test System (Flying-Probe)



Additional Laser Drilling / Cutting System

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# Provide Solutions

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leiterplatten GmbH



Engineering-Team with more than 50 years experience in PCB



650 new Layouts in 2022



Test projects and test productions



Producing 75% from the production turnover in special and complex technologies (Flex, Rigidflex and HDI)

## We enable your Vision



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# Capabilities

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HDI - Blind / Buried / Stacked / Staggered Vias



Sequential BuildUp and Mixture BuildUp



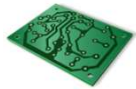
Layer counts 30 plus



Max. thickness 4,8mm - special 5,6mm



Minimum line / space 75  $\mu\text{m}$  (3 mil)



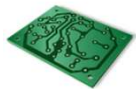
Via in Pad Plugging (Epoxy / Copper)



Micro Via Plugging (Epoxy / Copper)



Impedance controlled (including measuring protocol)



Laser cutting and drilling

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# Capabilities

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## Surface Finishes:

HASL (lead / leadfree)

Immersion Ni/Au

Immersion Silver

Immersion Tin

Soft Electrolytic Gold

Galvanic HardGold

ENTEK 106

OSP

ISIG

EPIG

ENEPIG



## Materials:

FR4:

-Isola

-Ventec

-Iteq

-Panasonic

High Frequency / High Speed:

-Rogers

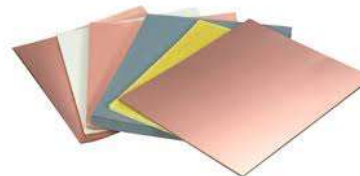
-Arlon

-Nelco

Polyimid Glas

Polyimide

Other Special Materials on request

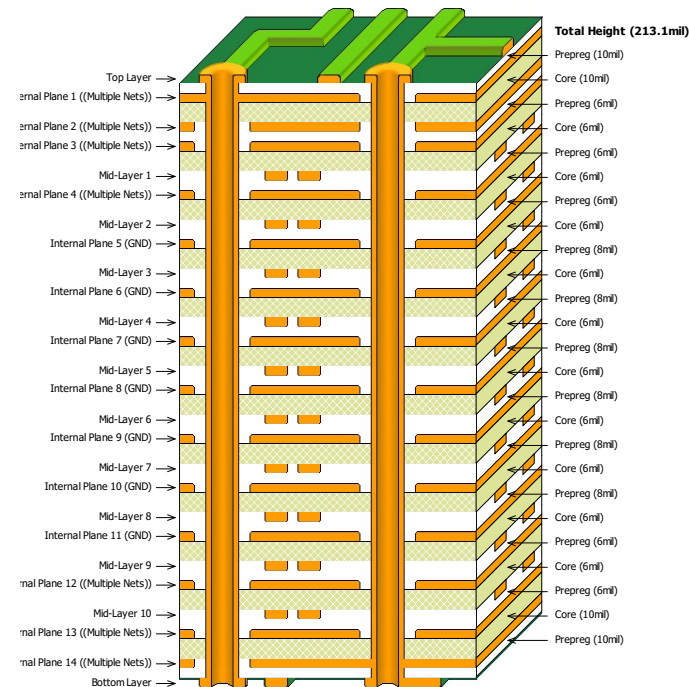


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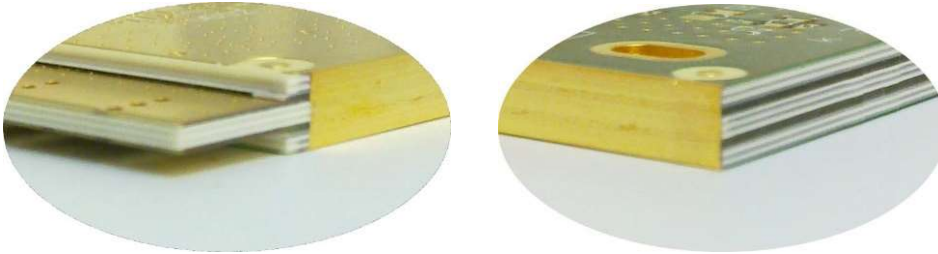
Board size 512 x 427mm



Also as RigidFlex Option with 6 flexible copper layer  
(3 x 125µm Polyimide Cores)!

# HighSpeed + HighFrequency

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20 layer Rogers / FR4 mix buildup

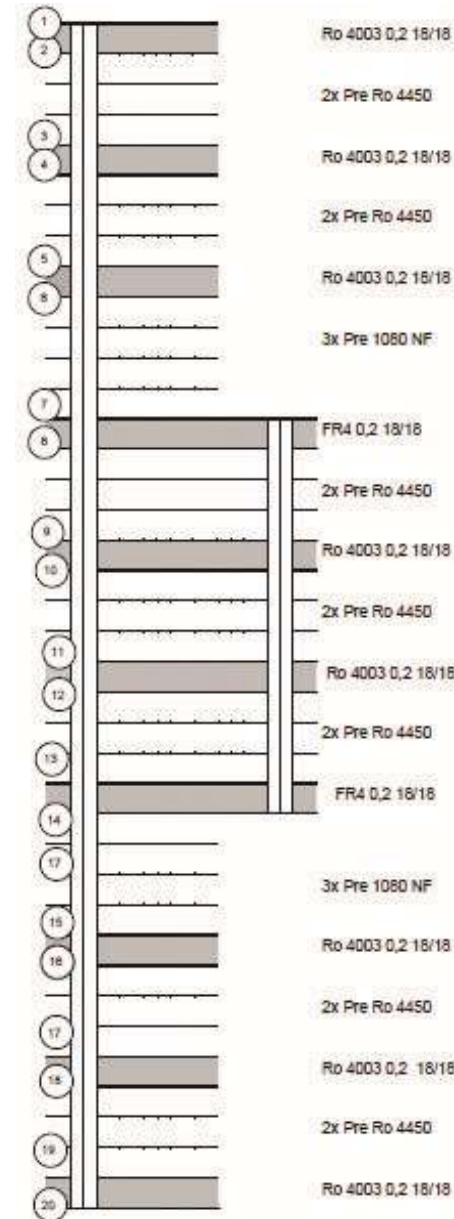
Thickness 4,5mm with aspect ratio 1:11

Edge Plating and plated slot holes

Line / Space 100µm

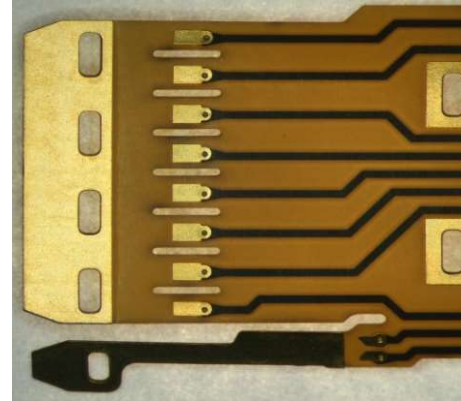
Impedance controlled

Sequential BuildUp (SBU) with buried vias and galvanic Ni/Au (hardgold) in innerlayer connector area



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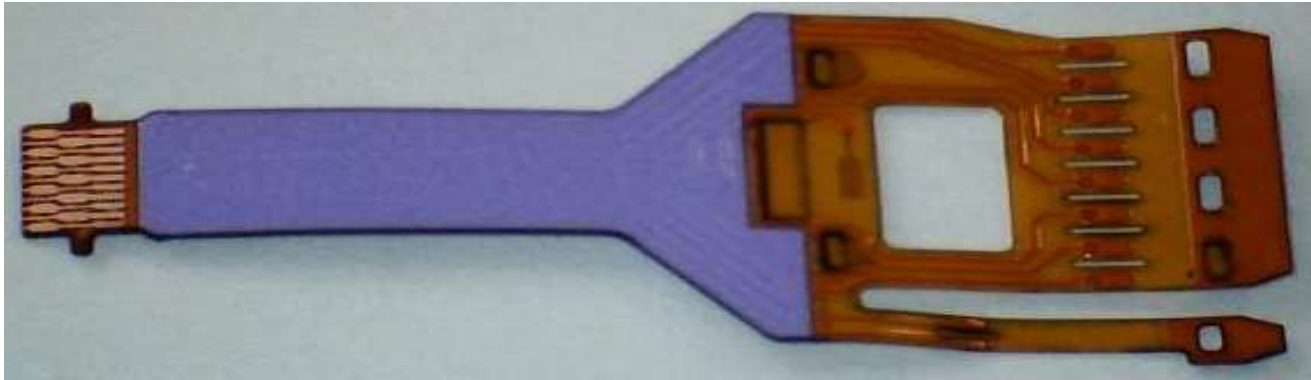


Connector area with stiffener and finishing galv. Ni/Au (hardgold)



# Silver shielding

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2-layer FPC with finishing ENEPIG

Silverfoil electrical connected as ground layer / shielding

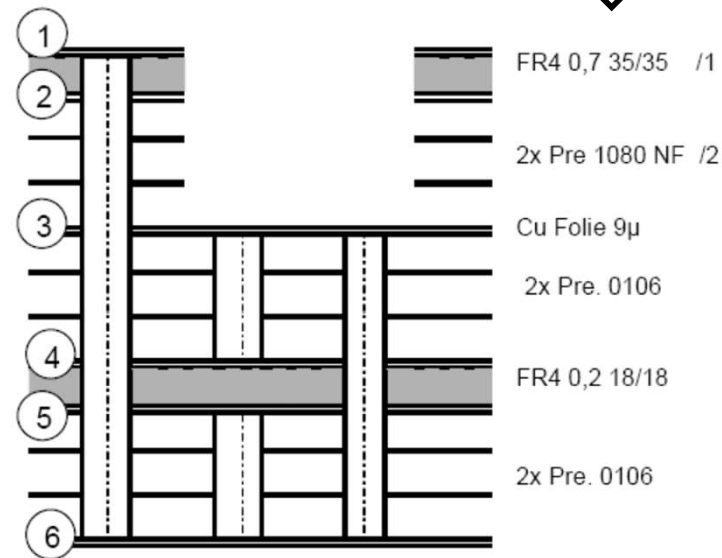
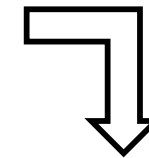
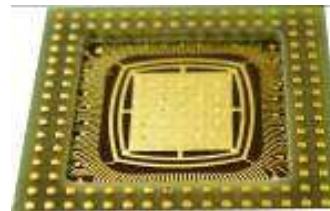
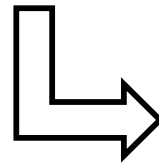
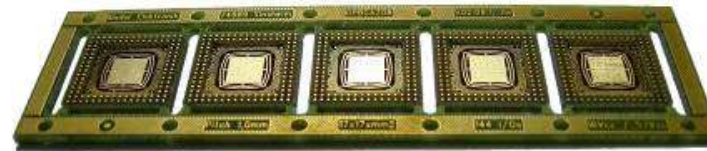
Base material AP8515 (25  $\mu\text{m}$  polyimid)

Lasered contour

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# Technologies

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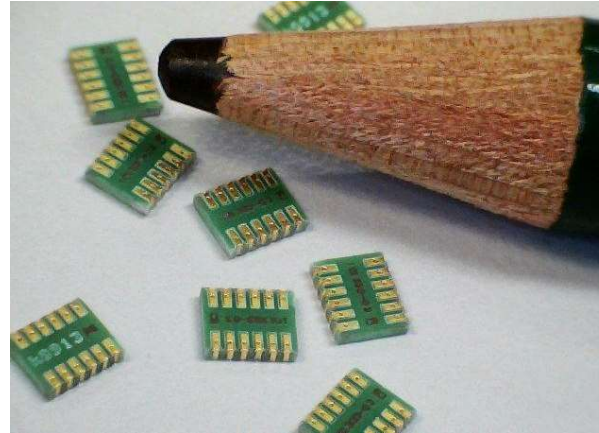
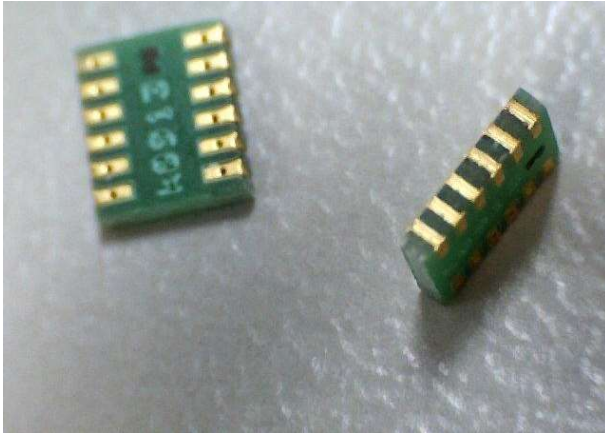


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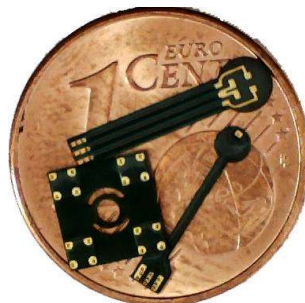


# How small it may be?

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Whether rigid or flexible circuit boards, with or without edge metallization, we produce according to your requirements and laser the contour if necessary.

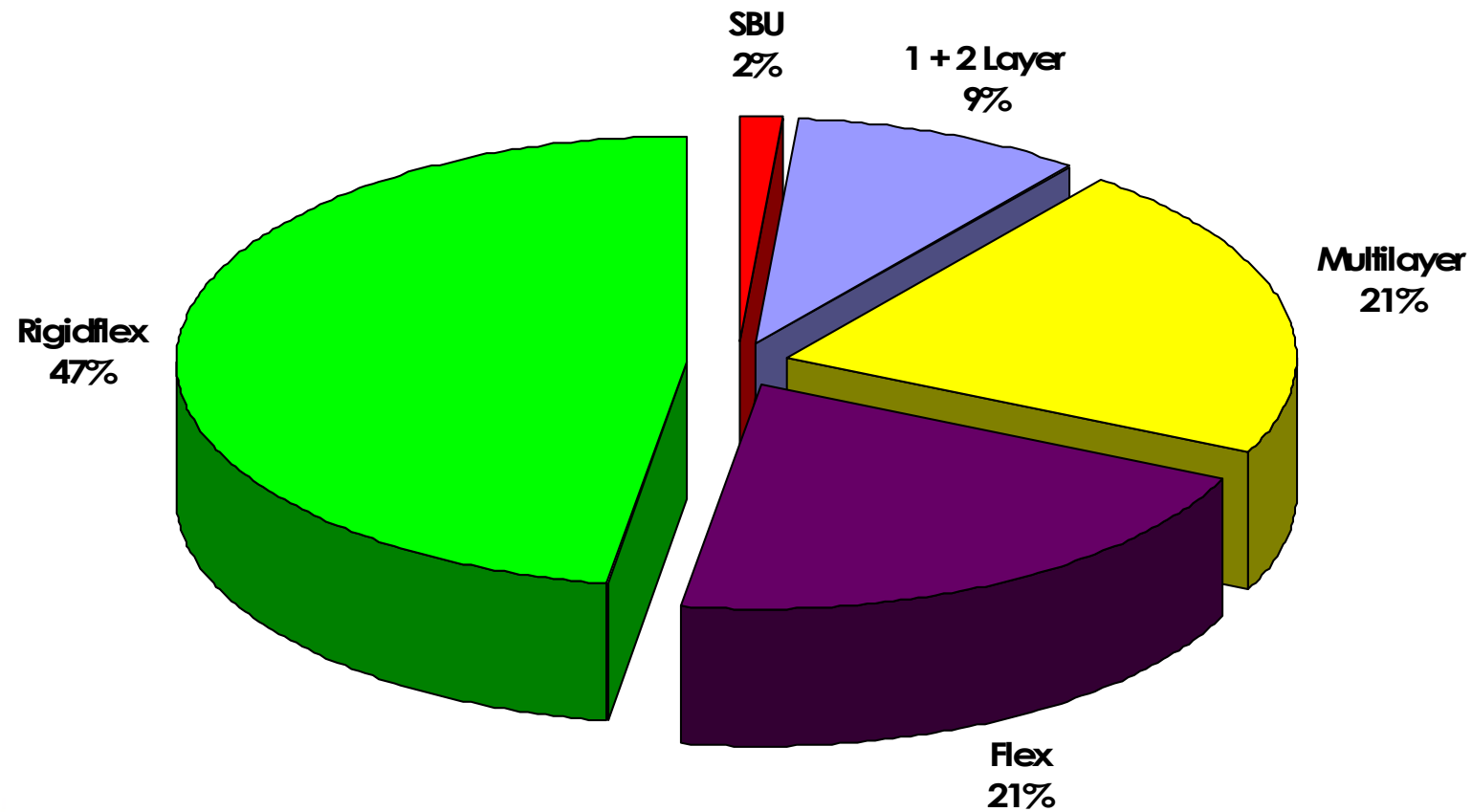


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# Product Mix

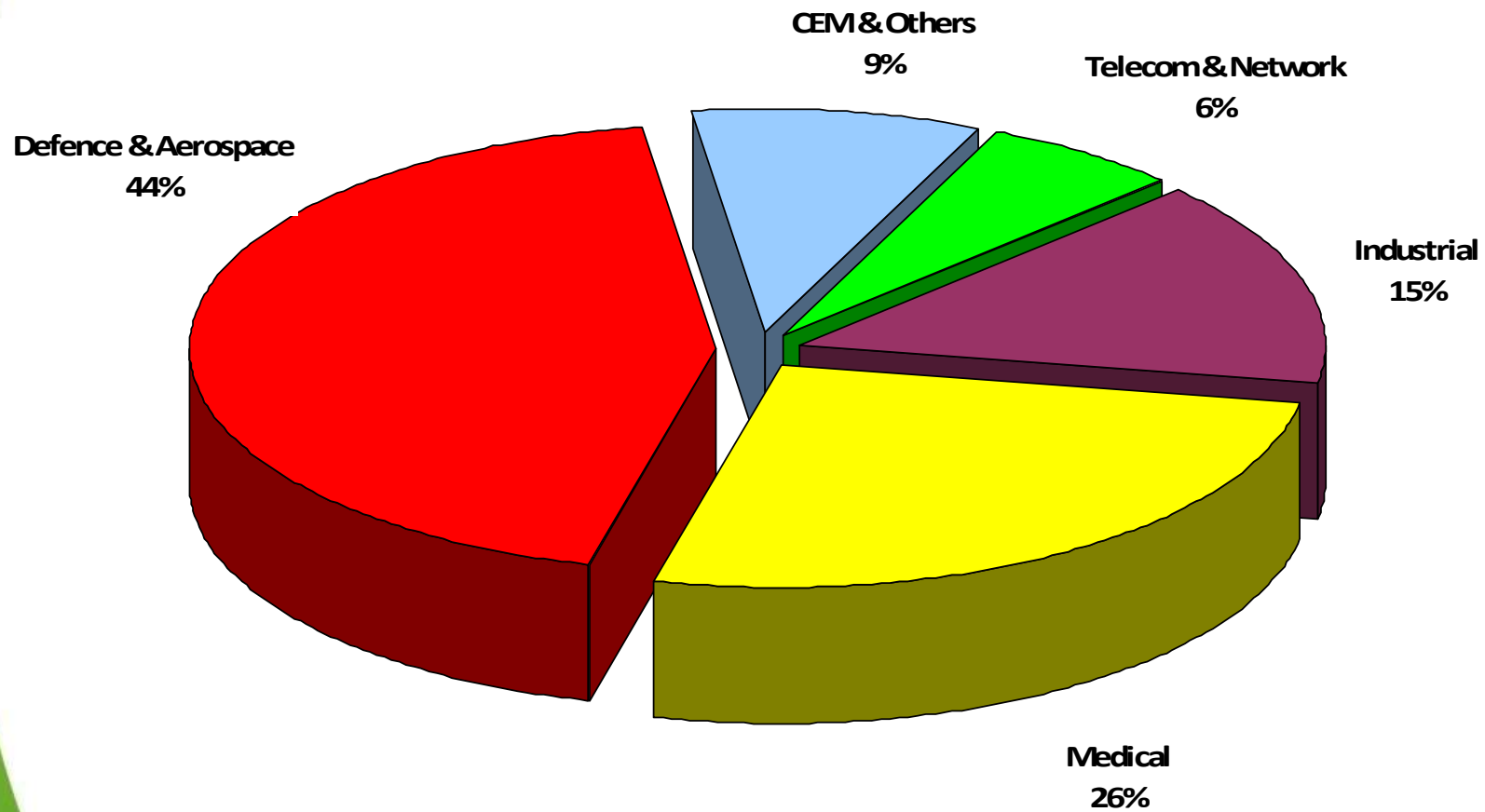
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# Markets

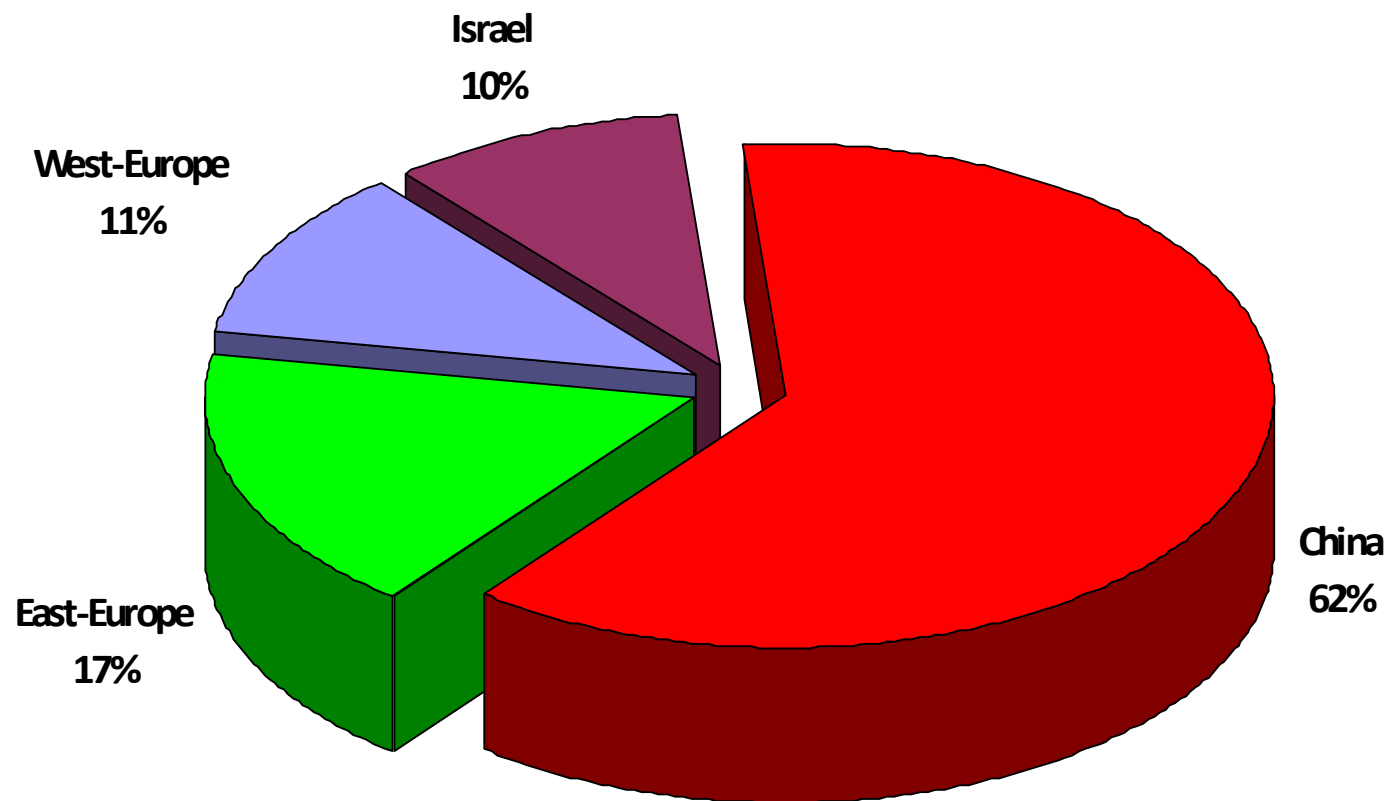
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# Origin of trading PCBs

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# Qualifications / Certifications

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UL-94V0 for Multilayer, Flex and RigidFlex



DIN EN ISO 9001:2015  
DIN EN ISO 14001 (Environmental)  
AS 9100 (Aerospace and Defence)



All relevant IPC Standards



ROHS compliance



Member of EIPC and ZVEI

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# References

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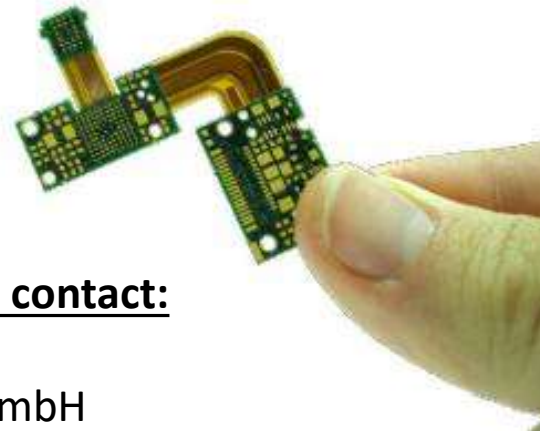
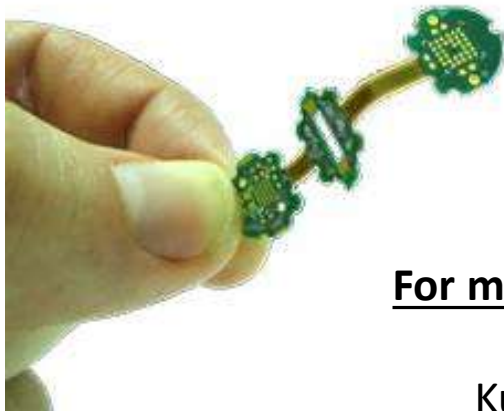


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Together for your success

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# Thank You!



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