
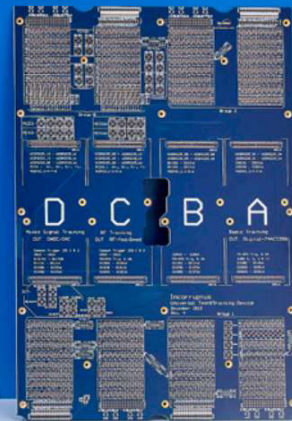
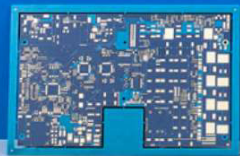


<p><b>Becker &amp; Müller</b>  <b>Schaltungsdruck GmbH</b>          Phone: +49 (0)7832 9180-0  <a href="mailto:brief@becker-mueller.de">brief@becker-mueller.de</a>  <a href="http://www.becker-mueller.de">www.becker-mueller.de</a></p> 	
<b>Materials</b>	<ul style="list-style-type: none"> <li>• FR 4</li> <li>• High TG 135/150/170°C</li> <li>• CEM-1</li> <li>• ROGERS (high frequency materials)</li> <li>• PTFE</li> <li>• Polyamide</li> <li>• IMS (aluminum core)</li> <li>• more materials on request</li> </ul>
<b>Surfaces (RoHS-compliant)</b>	<ul style="list-style-type: none"> <li>• HAL lead-free (Hot Air Leveling)</li> <li>• chemical Sn</li> <li>• chemical Ag</li> <li>• chemical Ni/Au (ENIG)</li> <li>• chemical Ni/Pd/Au (ENEPIG)</li> <li>• chemical Pd/Au (EPIG)</li> <li>• galvanic Ni/Au (hard gold)</li> <li>• galvanic Au (fine gold)</li> <li>• Entek (OSP)</li> </ul>
<b>Soldermask &amp; silkscreen</b>	<ul style="list-style-type: none"> <li>• green (standard)</li> <li>• white</li> <li>• black</li> <li>• blue</li> <li>• more on request</li> </ul>
<b>Special printings</b>	<ul style="list-style-type: none"> <li>• plugging</li> <li>• bluemark</li> <li>• vias filled (with soldermask)</li> </ul>
<b>Tests and measurements</b>	<ul style="list-style-type: none"> <li>• AOI (Automatische Optische Inspektion)</li> <li>• E-Test (electrical test, fingertester)</li> <li>• interim control (100%)</li> <li>• final check (100%)</li> <li>• impedance check</li> <li>• position offset control multilayer</li> <li>• micrograph</li> <li>• initial sample inspection</li> <li>• compliance with mechanical tolerances (video measuring microscope)</li> <li>• more controls on request</li> </ul>
<b>Design Rules</b>	See Datasheet „ <b>Design Rules</b> “

<b>Tolerances drills (plated)</b>	<ul style="list-style-type: none"> <li>· 0,2 mm – 2,0 mm: +0,15 mm / -0,05 mm</li> <li>· 2,1 mm – 6,2 mm: +0,2 mm / -0,05 mm</li> <li>· &gt;6,2 mm: +0,2 mm / -0,2 mm</li> <li>· more accurate tolerances on request</li> </ul>
<b>Tolerances drills (not plated)</b>	<ul style="list-style-type: none"> <li>· 0,2 mm – 6,2 mm: +0,1 mm -0,05 mm</li> <li>· &gt;6,2 mm: +0,2 mm -0,2 mm (drilling is milled)</li> <li>· more accurate tolerances on request</li> </ul>
<b>Maximum PCB size</b> double sided: multilayer:	427 mm x 884 mm 370 mm x 496 mm
<b>Tolerances contours</b>	<ul style="list-style-type: none"> <li>· 0,5 mm – 6 mm: <math>\pm 0,1</math> mm</li> <li>· 6,0 mm – 30 mm: <math>\pm 0,15</math> mm</li> <li>· &gt;30 mm: <math>\pm 0,2</math> mm</li> <li>· more accurate tolerances on request</li> </ul>
<b>Data formats</b>	<ul style="list-style-type: none"> <li>· GERBER</li> <li>· HPGL (conditional)</li> <li>· DXF (conditional)</li> <li>· EAGLE</li> <li>• TARGET</li> </ul>

# EINFACH KANN JEDER. WIR SIND DIE SPEZIALISTEN FÜR KOMPLEXE LEITERPLATTEN.



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Our team will of course be happy to provide you with personal advice. Contact us!

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