



Product information

1 and 2 sided circuit boards

1. Introduction

With this product information, we would like to provide you with some basic details about the manufacture of single and double-sided printed circuit boards. This is meant to help you to make decisions when placing an order. We are happy to send you more extensive product and technology information on request.

2. General details

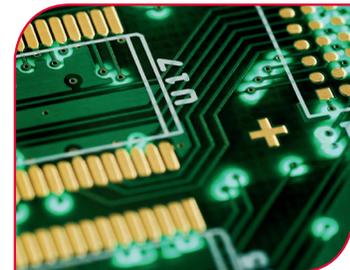
	Standard	Special**
Max. circuit size	459 mm x 264 mm or 459 x 428mm	508 mm x 361 mm
Thickness of the printed circuit	0.50 -0.80 -1.00 -1.20 -1.55 -2.00 -2.40 mm	0.1 mm to 4.2 mm
Copper coating	18 - 35 - 70 - 105 µm	as requested

3. Materials

Material type	Material class	
Panasonic R-1755M	FR4, Tg 130°C	Further materials on request. We are happy to send datasheets on request.
Modified FR4 system	Medium Tg, high Tg, halogen free	
Megtron 6	High frequency material	
Ro 3000° - Ro 4000°	High frequency material	
IMS-Al, IMS-Cu	Metal Core PCB	

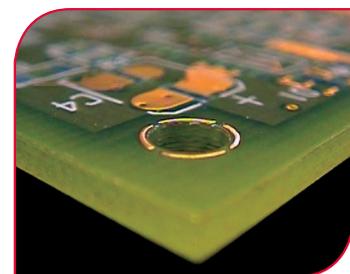
4. Mechanical processing

- Scoring
- Milling (contours, links, vertical)
- Countersunk drilling
- Mechanical drilling (from 0.10 mm diameter)
- Laser drilling
- Press-fit technology



5. Finishes

- Solder resist: green (blue, red, black, further on request)
- Vacrel® (dry film photopolymer solder mask, 75 µm thick)
- Silk Screen: white (yellow, black, further on request)
- ENIG
- ENEPIG
- ISIG
- HAL, HAL-PbSn
- electroless Sn
- electroplated Ni/Au (selective or entire surface), electroplating of connectors with Au
- OSP (e.g. Entek® Plus organic surface protection)
- Carbon printing



6. Test systems

- AOI (Automatic Optical Inspection)
- Electrical test (flying probe bare board tester)
- Impedance Control
- X-ray thickness measurement

7. Test/Standardisation

- Conforms to IPC-A-600 class II (Class III on request)
- UL listed according UL94V-0; UL796 (file number E228204)

For further technological questions concerning circuit boards, please contact our CONTAG-Team (Tel. +49 30 351 788-300 or team@contag.de).

** on request

Version: F