
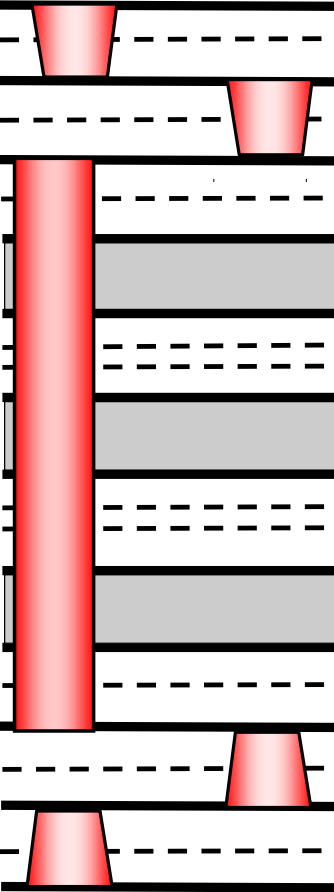


| Build Up HDI (Standard) | | | | |  | | | | | | | | | |
|------------------------------------|-------------|--|-------------|--|---|--------------|--------------|-----------------|-----------------------|-----|----|--|--|--|
| HDI12_2+8b+2_1,25_17.5_engl | | 12 - Layers | | | | | | | | | | | | |
| Core: 0,10 mm Cu 17.5/17.5 µm | | 2 + 8B + 2 | | | | | | | | | | | | |
| WE-Articel No.: | | Customer: | | | | | | | | | | | | |
| layer description | | configuration | | | Raw-Material | CU | PREPREG | Final Thickness | Customer requirements | | | | | |
| Customer | WE | | | | | | | [µm] | [µm] | | | | | |
| | TOP/VS |  | | | Foil | 12 µm | 1) | 12 | | | | | | |
| | | | | | | | | | 1 x 1080 | 60 | | | | |
| | 2 | | | | | | Foil | 12 µm | | 30 | | | | |
| | | | | | | | | | 1 x 1080 | 60 | | | | |
| | 3 | | | | | | Foil | 12 µm | | 38 | | | | |
| | | | | | | | | | 1 x 1080 | 66 | | | | |
| | 4 | | | | | | | 0,100 mm | 17.5 µm | | 16 | | | |
| | | | | | | | | | | 100 | | | | |
| | 5 | | | | | | | | 17.5 µm | | 16 | | | |
| | | | | | | | | | | 100 | | | | |
| | 6 | | | | | | | 0,100 mm | 17.5 µm | | 33 | | | |
| | | | | | | | | | | 100 | | | | |
| | 7 | | | | | 17.5 µm | | 33 | | | | | | |
| | | | | | | | 100 | | | | | | | |
| | 8 | | | | | 17.5 µm | | 33 | | | | | | |
| | | | | | 0,100 mm | | | 100 | | | | | | |
| | 9 | | | | | 17.5 µm | | 33 | | | | | | |
| | | | | | | | 100 | | | | | | | |
| | 10 | | | | | 17.5 µm | | 33 | | | | | | |
| | | | | | | | 100 | | | | | | | |
| | 11 | | | | Foil | 12 µm | 1) | 12 | | | | | | |
| | | | | | | | 1 x 1080 | 60 | | | | | | |
| | | | | | Foil | 12 µm | | 30 | | | | | | |
| | | | | | | | 1 x 1080 | 60 | | | | | | |
| | BOT/RS | | | | Foil | 12 µm | 1) | 12 | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| | | | | 1) copper thickness outer layers: appr. 55 µm | | | | | | | | | | |
| | | | | total material thickness: 1264 | | | | | | | | | | |
| | | | | Note: Lamination thickness for Prepregs depending on layout characteristics. | | | | | | | | | | |
| final lamination thickness: | 1,25 | +/- | 0,11 | mm | | | Date: | Engineer: | | | | | | |
| thickness with electro plated Cu: | 1,34 | +/- | 0,14 | mm | | | | | | | | | | |
| total thickness with soldermask | 1,40 | +/- | 0,16 | mm | | | | | | | | | | |
| customer requirement | | +/- | | mm | point: | | | | | | | | | |
| prepared: on | | by | checked: on | | by | approved: on | | by | revision | | | | | |
| 29.03.2006 | S. Keller | | 04.05.2006 | M. Kress | | 04.05.2006 | R. Schönholz | | 00 | | | | | |
| | | | | | | | | page: 18+ | | | | | | |