


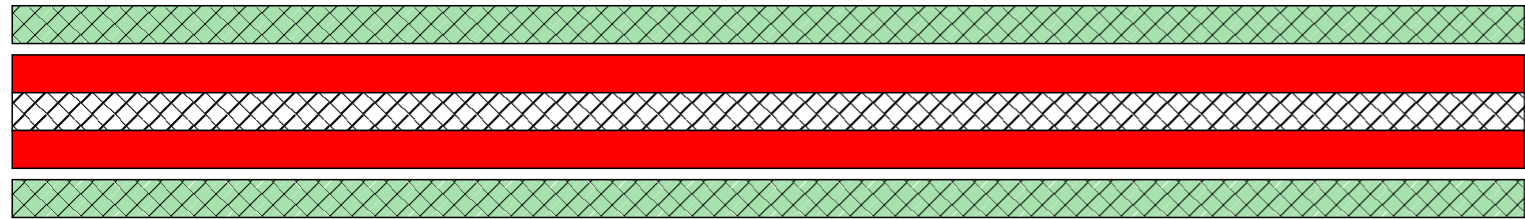
# Rigid

| # Layer         | Thickness | Description                                       | Dk  | Df    | Note                                |
|-----------------|-----------|---|-----|-------|-------------------------------------|
| Top Solder      | 0.015mm   | Soldermask IPC-SM840                              | 3,5 | 0,028 | used on rigid parts                 |
| 1 Top Side      | 0.030mm   | Starting foil 1/4oz. after plating and processing |     |       |                                     |
|                 | 0.050mm   | Flexible core IPC-4204/11                         | 3,4 | 0,002 | Flex Polyimide adhesiveless         |
| 2 Inner Layer 1 | 0.017mm   | ED Base Copper                                    |     |       |                                     |
|                 | 0.100mm   | Prepreg IPC-4101/127/128                          | 4,4 | 0,011 | LowFlow FR-4.1 filled, halogen free |
|                 | 0.510mm   | Core IPC-4101/127/128                             | 5,1 | 0,011 | FR-4.1 filled, halogen free         |
|                 | 0.065mm   | Prepreg IPC-4101/127/128                          | 3,5 | 0,011 | FR-4.1 filled, halogen free         |
| 3 Bottom Side   | 0.030mm   | Starting foil 1/4oz. after plating and processing |     |       |                                     |
| Bottom Solder   | 0.015mm   | Soldermask IPC-SM840                              | 3,5 | 0,028 | used on rigid parts                 |

**Total thickness: 0.832mm**

|  |  |  |                      |   |
|--|--|--|----------------------|---|
| notes:   | <b>FLEX3_2F-1Ri_0,83_17_V2.12</b>                    |  |                      |  |
| Final copper thickness according to IPC-6013   | PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm |  |                      |   |
| IPC 2223 use A "Flex to install"   | customer   |  | created              |   |
|  | pcb name   |  | approved             |   |
| Please regard to our sectional design rules:<br>▶ <a href="http://www.we-online.com">www.we-online.com</a> | engineer   |  | format A4, landscape |   |
|  | date   |  |                      |   |
| Template Revision: 02/2021 by Andreas Schilpp / Michael Kress / Werner Öchslen                             |  |  |                      |   |

# Flex



| # | Layer                   | Thickness | Description                                       | Dk  | Df    | Note                             |
|---|-------------------------|-----------|---|-----|-------|----------------------------------|
|   | flexible Soldermask Top | 0.040mm   | Soldermask JIS-C-5012/IPC-SM840                   | 4,3 | 0,05  | flexibel, thermal cured          |
| 1 | Top Side                | 0.030mm   | Starting foil 1/4oz. after plating and processing |     |       |                                  |
|   |                         | 0.050mm   | Flexible core IPC-4204/11                         | 3,4 | 0,002 | Flex Polyimide adhesiveless      |
| 2 | Inner Layer 1           | 0.017mm   | ED Base Copper                                    |     |       |                                  |
|   | Coverlay Bottom         | 0.040mm   | PI Coverlay IPC-4203/2                            | 3,6 | 0,02  | Polyimide + bonding film (Epoxy) |

**Total thickness: 0.177mm**

|  |  |  |                      |
|--|--|--|----------------------|
| notes:   | <b>FLEX3_2F-1Ri_0,83_17_V2.12</b>                                    |  |                      |
| Final copper thickness according to IPC-6013   | PCB Thickness Tolerance: rigid $\pm 10\%$ / flex $\pm 0,05\text{mm}$ |  |                      |
| IPC 2223 use A "Flex to install"   | customer   |  | created              |
|  | pcb name   |  | approved             |
| Please regard to our sectional design rules:<br>► <a href="http://www.we-online.com">www.we-online.com</a> | engineer   |  | format A4, landscape |
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