# КОМПОНЕНТ В БИБЛИОТЕКЕ SCHEMATIC

Поле DESCRIPTION:

IC

RESISTOR

ARRAY

CAPACITOR

MAGNETIC

INDUCTOR

FILTER

TRANSFORMER

TRANSFORMER

CONNECTOR

MODULE

RADIO

POWER

SWITCH

TRANSISTOR

DIODE

TVS

ZENER

RELAY

DISPLAY

LED

ANTENNA

BATTERY

OSCILLATOR

SPECIAL

TEMPLATE

WIRE

PROTECTION

# §СЛОИ

|  |  |  |
| --- | --- | --- |
| **TOP** | **BOTTOM** |  |
| Mechanical 1 | Mechanical 4 | контуры компонентов для assembly |
| Mechanical 13 | Mechanical 16 | .designator |
| Mechanical 14 | Mechanical 17 | .comment |
| Mechanical 2 | | enclosure parts etc. |
| Mechanical 5 | Mechanical 6 | маркировка |

Рекомендуемые механические слои:

|  |  |
| --- | --- |
| Mechanical 1 (M1) | Board outline (it is not recommended to use just the keep-out layer, since that can be used for other things also). |
| Mechanical 2 (M2) | PCB notes and comments for the PCB manufacturer/assembler (included in Gerber output). |
| Mechanical 3 (M3) | General notes and comments that the PCB manufacturer/assembler does not need to know about (not included in Gerber output). |
| Mechanical 11 (M11) | Top layer dimensions (paired with M12). |
| Mechanical 12 (M12) | Bottom layer dimensions (paired with M11). |
| Mechanical 13 (M13) | Top layer component body information (3D models and mechanical outlines, paired with M14). |
| Mechanical 14 (M14) | Bottom layer component body information (3D models and mechanical outlines, paired with M13). |
| Mechanical 15 (M15) | Top layer courtyard and assembly information (paired with M16). This normally includes a cross-hairs at the origin of the component. |
| Mechanical 16 (M16) | Bottom layer courtyard and assembly information (paired with M15). This normally includes a cross-hairs at the origin of the component. |

# ЦВЕТА

Use a ‘**hot and cold**‘ colour scheme. All layers related to the top side (Top Layer, Top Overlay, Top Paste, Top Solder, Top Dimensions, Top Component Outlines/3D Bodies, and Top Courtyard are all chosen to be **hot** colours, while conversely all the bottom side layers are chosen to be **cold** colours.

# РАЗНОЕ

Основные цвета

Серый 220

Черный 3

Line width = 0.1mm

True type

Arial

Heght = 1mm

**SCH library > Library Component Prperties > Parameters**

|  |  |
| --- | --- |
| NumberSolderPointsSMD |  |
| NumberSolderPointsTHT |  |
| Аналог |  |
| Комплект |  |
| Описание |  |
| x |  |
|  |  |
|  |  |

# REANNOTATE

|  |  |
| --- | --- |
| SCH | PCB |
| Tools » Convert » Reset Component Unique IDs |  |
|  | Project»Component Links  (add pairs matched by designator) |
|  | Tools >> Reannotate |
|  | Design >> Update Schematics |
|  |  |
|  |  |

# LAYER STACKUP

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2-LAYER** |  |  | Thickness,inch | Thickness,mm |
| **1** | Top | Copper | 0.0014 | 0.03556 |
|  |  | Core | 0.057 | 1.4478 |
| **2** | Bottom | Copper | 0.0014 | 0.03556 |
|  |  |  | 0.0598 | 1.51892 |
|  |  |  |  |  |
| **4-LAYER** |  |  | Thickness,inch | Thickness,mm |
| **1** | Top | Copper | 0.0014 | 0.03556 |
|  |  |  | 0.0091 | 0.23114 |
| **2** | Inner1 | Copper | 0.0014 | 0.03556 |
|  |  |  | 0.037 | 0.9398 |
| **3** | Inner2 | Copper | 0.0014 | 0.03556 |
|  |  |  | 0.0091 | 0.23114 |
| **4** | Bottom | Copper | 0.0014 | 0.03556 |
|  |  |  | 0.0608 | 1.54432 |

Rules

Разное

|  |  |
| --- | --- |
| Edit » Origin » Set | This command is used to define a location in the workspace as the new (relative) origin and resets its coordinates to 0,0. |
|  | InRegionRelative(0,0,5200,3740)=True |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

