**Mapping parameters:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Layer** | **H/W** | **R/S** | **E/F** | **C** | **M** | **U** | **V** | **n** | **e** | **p** | **q** | **r** | **t** |
| **CONV1** | 227 | 11 | 55 | 3 | 64 | 4 | 0 | 1 | 7 | 16 | 1 | 1 | 2 |
| **MAX1** | 55 | 3 | 27 | 64 | 1 | 2 | 2 | 1 | 27 | 1 | 1 | 1 | 1 |
| **CONV2** | 31 | 5 | 27 | 64 | 192 | 1 | 0 | 1 | 27 | 16 | 2 | 1 | 1 |
| **MAX2** | 27 | 3 | 13 | 192 | 1 | 2 | 1 | 1 | 13 | 1 | 1 | 1 | 1 |
| **CONV3** | 15 | 3 | 13 | 192 | 384 | 1 | 1 | 1 | 13 | 16 | 4 | 1 | 4 |
| **CONV4** | 15 | 3 | 13 | 384 | 256 | 1 | 1 | 1 | 13 | 16 | 3 | 2 | 2 |
| **CONV5** | 15 | 3 | 13 | 256 | 256 | 1 | 0 | 1 | 13 | 16 | 3 | 2 | 2 |
| **MAX3** | 13 | 3 | 6 | 256 | 1 | 2 | 0 | 1 | 6 | 1 | 1 | 1 | 1 |

**H/W**: Height and Width for ifmap.

**R/S**: Height and Width for filter.

**E/F**: Height and Width for ofmap after normalization.

**C**: Number of filter’s channel.

**M**: Number of filters.

**U**: Striding.

**V:** Padding number.

**m**: Number of channels stored in the ofmap GLB.

**n**: Number of ifmaps used in a processing pass.

**e**: Width of PE set.

**p**: Number of filters processed by a PE set.

**q**: Number of channels processed by a PE set.

**r:** Number of PE sets that process different channels in the PE array.

**t:** Number of PE sets that process different filters in the PE array.

**p x t :** Number of filters processed by a PE array.

**q x r :** Number of channels processed by a PE array.