

Input size: 12 X 12 X3 Thus, kernel size is: 5x5x3 and there are 256 kernels

Output size: 8 X 8 X 256

Df = 12 M=3 N=256 Dk=5

No of operations in normal conv=Dk^2\*Df^2\*M\*N=2764800 No of operations in depth wise seperable = Df^2\*M(Dk^2+N)=121392 Ratio=2764800/121392=22.75