Alternate Classes of classes utilized in Doherety amplifiers:

Typically, Doherety Power Amplifiers use a combination of class AB and class C amplifiers. The class AB amplifier is called the main amplifier and the class C is called the auxiliary amplifier.

Class F is basically a class C with filters on the output. Theoretically can get 100% efficiency, but more like 60 to 75% in real life.

Class F amplifiers use filters to tune out the higher order harmonics that distort the signal and waste energy. This is called harmonic termination.

Replacing the class AB with a class F amplifier can increase the overall efficiency of the amplifier.

When using a class F amplifier, more consideration must be made in selecting the load that the whole system sees.