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[EZ/EQ Surface Mount Devices](#)

Marki Microwave EZ and EQ Carrier Surface Mount Mixers are designed for easy surface-mount integration into microwave radio and other wireless systems for applications up to 30 GHz.

EZ/EQ-Carrier Surface Mount components may be mounted one of two ways: reflow-soldered directly to the system substrate, or screwed in place and solder-tacked at the port and ground connections. For many applications, it is sufficient to simply solder-tack the input/output and ground connections. 0-80 metal or nylon screws may be used for alignment. Nylon screws will minimize radiation effects.

For best performance, the surface mount mixer is reflow-soldered to the circuit board as shown. The mounting holes can be used for alignment, however **screws are not required**. See Application Note 601-03688 for the recommended PCB system footprint.

Note that **EZ-Carrier T3As and EZ/EQ-Carrier Buffer Amplifiers are not suitable for reflow solder** due to the use of open amplifier chips.

For **EZ/EQ Amplifiers and EZ T3As**, silver epoxy attach the EZ/EQ-carrier and solder the eyelets for the input/output and bias. Alternately, screws can be used for the carrier attach, no silver epoxy needed, with the eyelets soldered as before. The maximum allowed temperature for EZ/EQ Amplifiers and EZ T3As is +120°C.

