

RADITEK

FAMILY OF Stripline ISOLATORS AND CIRCULATORS

There are several different kinds of RADITEK stripline drop-in isolators. Some are summarized and compared below:

1. RADI-F1-F2-de-110WR-options. This is the original model with good RF performance for cellular bands (800MHz to 1.4 GHz), but limited maximum temperature (to 85 °C operational and 100°C storage) and limited intermodulation (70 dBc typical with 2 x 50 Watt tones). It has high performance, plated Neodymium side magnets for compact height (<0.3inch). Overall size is 1 inch x 1.25 inch. The model is available with various options including: Clockwise Circulation direction (-R) and Counter Clockwise (-L), 10Watt load (dd size), 110Watt load, 20 and 30 dB attenuator load etc.

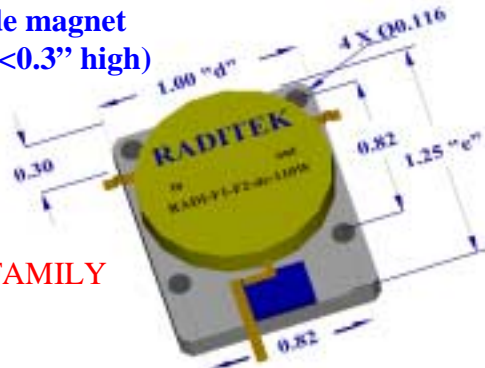
2 RI-SS-F1-F2-de/cd-A higher temperature version with Samarium Cobalt side magnets is also available for most models.

3. RADI-F1-F2-cd-110WR-options. This is the 2 GHz version (1.5 to 3.5 GHz) of item 1. It is smaller (0.75 x 1 inch) and is available with similar options. It also has high performance Neodymium side magnets. **An -SS version (same side) also exists.**

4. RI-C8-F1-F2-de 110W-R-options. This is an alternative cellular band model to the model 1. It has a difference magnet (high performance ceramic) that can handle much higher temperatures (up to 250 °C). than the Neodymium magnet type. It has the same footprint as the type 1, but is higher (around 0.55 inches). The C8 has better IMD too (**--75 to -80 dBc, 2 x 50W tones**).

5. RI-C8-F1-F2-ef-110W-U-R-Options. This is the **Ultra low intermodulation** version for the cellular bands. It is 1.25 x 1.5 inches, and a top magnet made from high performance Ceramic. Ceramic magnets have lower magnetization than Neodymium and needs to be larger, and on the top of the special ferrite structure, instead of the side, so the best intermodulation performance can be realized. **IMDs lower than -85 dB with 2 x 50 Watt tones are guaranteed.**

6. RI-ST-F1-F2-de-110W-U-Options. This is the **Ultra low intermodulation** version for the 2 GHz bands. It is the same footprint as the cellular de models (1 x 1.25 inch). **IMDs lower than -85 dB with 2 x 50 Watt de side magnet unit (<0.3" high)**



cd side magnet (<0.3"high)



de top magnet (<0.55" high)

