

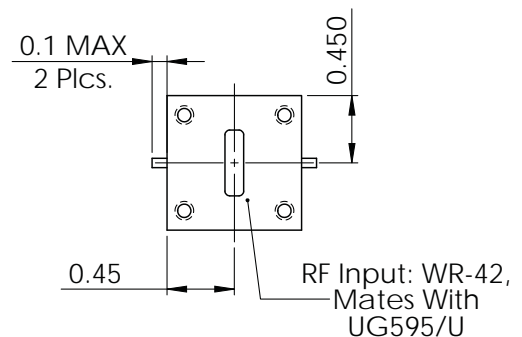
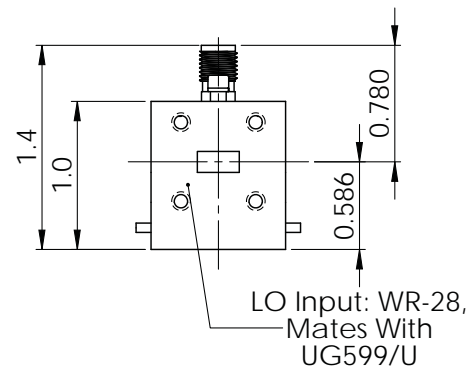
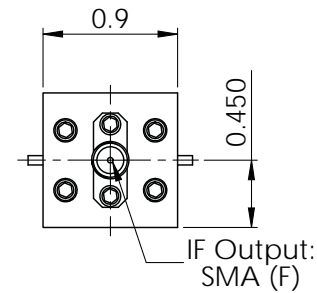
Waveguide Frequency Converter/Mixer, Model MKKa-7

Description:

Spacek Labs model MKKa-7 is a K-band mixer for the RF frequency range of 18 to 26.5 GHz. Our cross-bar mixer design uses two custom-made hermetic point-contact Schottky barrier diodes. This mixer can be designed in a variety of frequency combinations from single point to full waveguide bands.

Spacek Labs offers a full line of mixers covering the frequency range of 18-110 GHz which can also function as upconverters. These mixers are available with optional DC bias to allow LO input levels as low as 0 dBm.

Additionally, to complement your mixer's capabilities, Spacek Labs offers waveguide to coax transitions, filters, detectors, frequency sources, passive and active multipliers and amplifiers.



Electrical Specifications:

| Description | Specification |
|---------------------|-------------------------|
| RF Input Frequency | 18-26.5 GHz |
| LO Input Frequency | 26.5-40 GHz |
| LO Input Power | +10 to +15 dBm |
| IF Output Frequency | DC to 14 GHz in SMA (F) |
| Conversion Loss | 6.0 dB typ., 8.0 dB max |
| DC Bias | NA |

Mechanical Specifications:

| Description | Specification |
|---------------------|--------------------|
| RF Input Flange | WR-42, UG595/U |
| LO Input Flange | WR-28, UG599/U |
| IF Output Connector | SMA (F) Coaxial |
| Dimensions OA | (See drawing) |
| Material | Brass |
| Finish | Gold |
| Weight | 5 ounces / 0.14 kg |

FREQUENCY MIXERS

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Notes: Product data is periodically updated to reflect product / raw material / process / testing changes. This data should not be used as guaranteed specifications. Please contact Spacek Labs to make sure you have the most current data.