

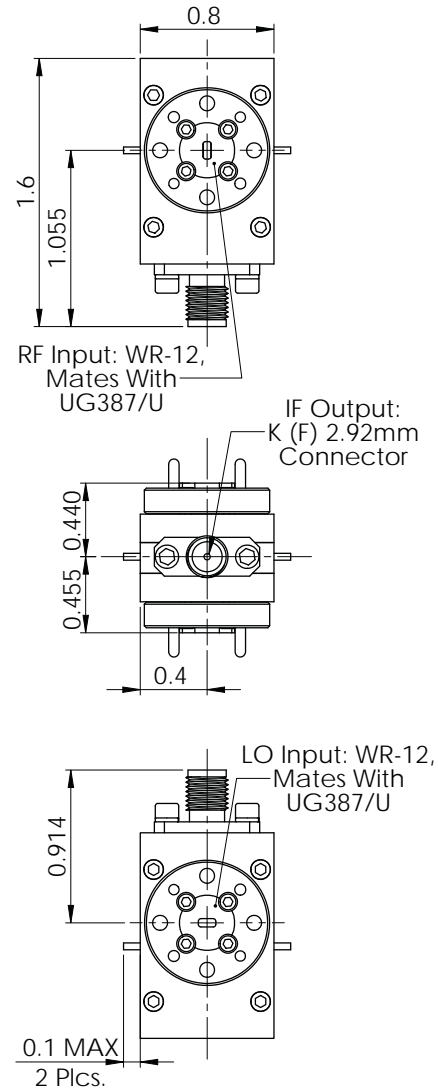
Waveguide Frequency Converter/Mixer, Model ME-15

Description:

Spacek Labs model ME-15 is a E-band mixer for the RF frequency range of 60 to 90 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	60-90 GHz
LO Input Frequency	59 GHz
LO Input Power	+10 to +15 dBm
IF Output Frequency	1-31 GHz
Conversion Loss	7.0 dB typ., 14.0 dB max
DC Bias	NA

Mechanical Specifications:

Description	Specification
RF Input Flange	WR-12, UG387/U
LO Input Flange	WR-12, UG387/U
IF Output Connector	K 2.92mm (F)
Dimensions OA	(See drawing)
Material	Brass
Finish	Gold
Weight	5 ounces / 0.14 kg

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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.