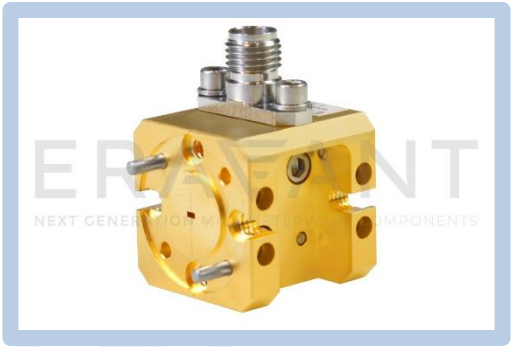
SFP-184194218-0510-UEB

Advanced Rev 1.0

WR-05 X2, Passive Frequency Multiplier, 186 to 190 GHz

Description:



Model SFP-184194218-0510-UEB is a WR-05 X2 passive multiplier that generates second order harmonics with good harmonic and fundamental suppression. This multiplier requires an input frequency range of 93 to 95 GHz at +26 dBm RF power to yield typical +18 dBm output power at 186 to 190 GHz. The multiplier is equipped with a WR-10 waveguide and UG-387/U-M flange as its input port and a WR-05 waveguide and UG-387/U-M flange as its output port.

Features:

- High Conversion Efficiency
- Compact Package

Applications:

- THz
- Source Modules
- Frequency Extenders

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	93 GHz	94 GHz	95 GHz
Output Frequency	186 GHz	188 GHz	190 GHz
Input Power		+26 dBm	
Damage Input Power			+28 dBm
Output Power (@ -10V Bias)	+16 dBm	+18 dBm	
Conversion Efficiency		18%	
Harmonic Suppression		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification
RF Input Port	WR-10 Waveguide with UG-387/U-M Flange
RF Output Port	WR-05 Waveguide with UG-387/U-M Flange
Bias Port	SMA (F)
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	0.75” (L) X 0.75” (W) X 0.75” (H)
Outline	FP-GW2-A

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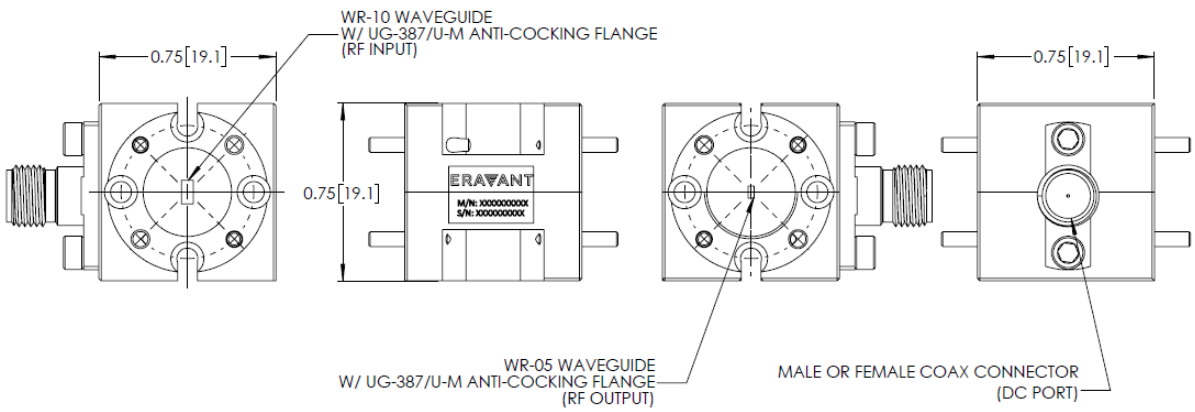
WR-05 X2, Passive Frequency Multiplier, 186 to 190 GHz

Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [Millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25˚C case temperature.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings of the multiplier will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.
- The multiplier is a static sensitive device. Always follow ESD rules when working with the multiplier.

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