# ENGY MULTIPL

# Frequency Doubler, Model W-2X

## **Description:**

Spacek Labs' passive frequency doubler, Model W-2X, has an input frequency range of 44 to 46 GHz generating an output frequency range of 88 to 92 GHz. This is a cost-effective frequency multiplier with similar models available from 18 to 110 GHz in complete waveguide output bandwidths from K-band to W-band. All designs are a balanced configuration to suppress undesired harmonics and are unconditionally stable for any input/output VSWR. To meet your needs, features can be added such as coaxial output adapters and additional filtering. MIL-spec or space-qualified units available.



### Features:

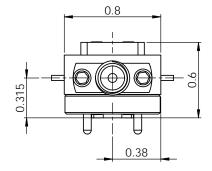
- Balanced Circuitry
- Unconditionally Stable
- Coaxial input, waveguide output, and filtering options available
- MIL-spec or space-qualified units available

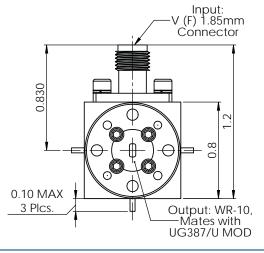
# **Electrical Specifications:**

Description	Min.	Тур.	Max.
Input Frequency Range	44 GHz	-	46 GHz
Input Power Level	-	+15 dBm	-
Output Frequency Range	88 GHz	-	92 GHz
Conversion Loss	-	-	11.0 dB

# **Mechanical Specifications:**

Description	Specification	
Connectors I/O	V 1.85mm(F) / WR-10	
Dimensions OA	See outline	
Material	Brass	
Finish	Gold-plate	
Weight	2.0 oz	





**OUTLINE**: Dimensions in inches (Not to scale)

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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.