

## Frequency Doubler, Model K-2X

### Description:

Spacek Labs' passive frequency doubler, Model K-2X, has an input frequency range of 9 to 13.25 GHz generating an output frequency range of 18 to 26.5 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:

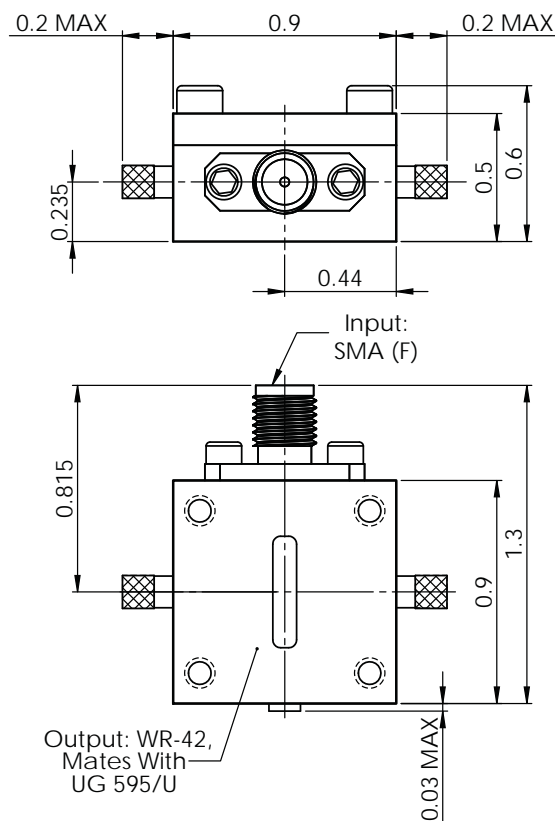
- Balanced Circuitry
- Unconditionally Stable
- Coaxial input, waveguide output, and filtering options available
- MIL-spec or space-qualified units available

### Electrical Specifications:

| Description            | Min.   | Typ.    | Max.      |
|------------------------|--------|---------|-----------|
| Input Frequency Range  | 9 GHz  | -       | 13.25 GHz |
| Input Power Level      | -      | +15 dBm | -         |
| Output Frequency Range | 18 GHz | -       | 26.5 GHz  |
| Conversion Loss        | -      | -       | 11.5 dB   |

### Mechanical Specifications:

| Description    | Specification  |
|----------------|----------------|
| Connectors I/O | SMA(F) / WR-42 |
| Dimensions OA  | See outline    |
| Material       | Brass          |
| Finish         | Gold-plate     |
| Weight         | 2.5 oz         |



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