

**Preliminary**

## Waveguide Combiner / S-BAND 2way Combiner

### RIW2425-AB020

**RFHIC**

#### Product Features

- 2 way Combiner
- Waveguide output Interface
- DIN(M) input Interface

#### Applications

- High power SSPA combining
- CVD M/W source combining
- M/W waste processing
- M/W heating, dry & sintering



#### Description

The RIW2425-AB020, 2 way combiner is designed for the high power SSPA combining application. The RIW2425-AB020 was applied to RFHIC 3kW generator, RIU243K0-40TG.

#### Electrical Specifications

| PARAMETER                   | UNIT | SPECIFICATION |
|-----------------------------|------|---------------|
| Operating Frequency         | GHz  | 2.4 ~ 2.5     |
| Insertion Loss <sup>1</sup> | dB   | < 0.2         |
| Amplitude Balance           | dB   | ± 0.3         |
| Phase Balance               | °    | ± 5           |
| Output VSWR                 | -    | Max. 1.3 : 1  |
| Power handling each Input   | kW   | CW 1.6        |

<sup>1</sup> This value includes adapter loss.

#### Mechanical Specifications

| PARAMETER                   | UNIT | VALUE           |
|-----------------------------|------|-----------------|
| Dimensions(W x D x H)       | mm   | 300 x 506 x 200 |
| RF Input / Output Interface | -    | DIN(M) / WR340  |
| Weight                      | kg   | Max. 5          |
| Material / Surface finish   | -    | Al / Chromate   |



#### Certification

This product is manufactured by a company that is certified for the AS9100D quality management system.

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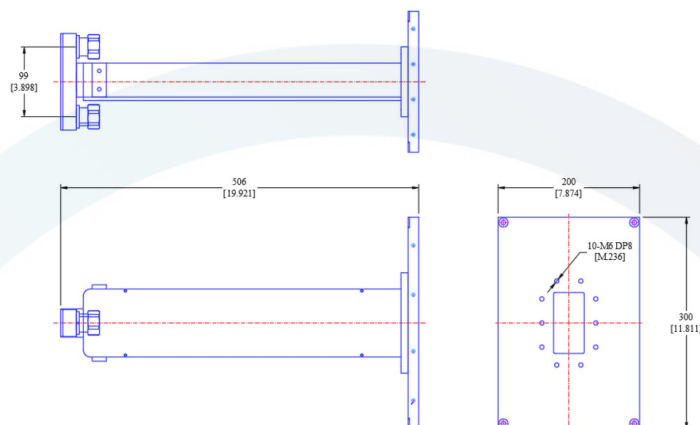
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## Dimensions

Unit: mm[inch]



### Note

\* Specifications are subject to change without notice.

## Option

1. Din(F) to WR340 adapter
2. WR340 directional coupler

## Revision History

| Part Number   | Release Date               | Version | Description             | Data Sheet Status |
|---------------|----------------------------|---------|-------------------------|-------------------|
| RIW2425-AB020 | 13 <sup>th</sup> Oct. 2021 | 0.1     | 1 <sup>st</sup> release | Preliminary       |
|               |                            |         |                         |                   |
|               |                            |         |                         |                   |

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