

Preliminary

Waveguide Combiner / S-BAND 8way Combiner

RIW2425-12K

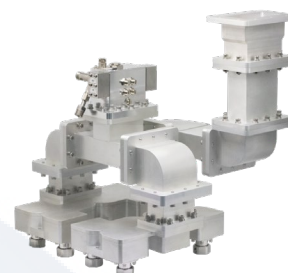
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Product Features

- 8 way Combiner
- Waveguide output Interface
- DIN input Interface
- Integrated E/H bend & Magi T

Applications

- High power SSPA combining
- CVD M/W source combining
- Semiconductor equipment
- M/W heating, dry & sintering



Description

The RIW2425-12K, 8 way combiner is designed for the high power SSPA combining application. The RIW2425-12K was applied to RFHIC 12kW generator, RIK2512K-40TG.

Electrical Specifications

PARAMETER	UNIT	SPECIFICATION
Operating Frequency	GHz	2.4 ~ 2.5
Insertion Loss ¹	dB	< 0.3
Amplitude Balance	dB	± 0.3
Phase Balance	°	± 5
Output VSWR	-	< 1.3 : 1
Power handling each Input	kW	CW 1.6
Coupling	dB	57± 1

¹ This value includes adapter loss.

Mechanical Specifications

PARAMETER	UNIT	VALUE
Dimensions	mm	249.4 x 249.4 x 135.5
RF Input / Output Interface	-	N(F) / WR284
Weight	kg	Max. 20
Water Cooling Interface	-	Rc1/4
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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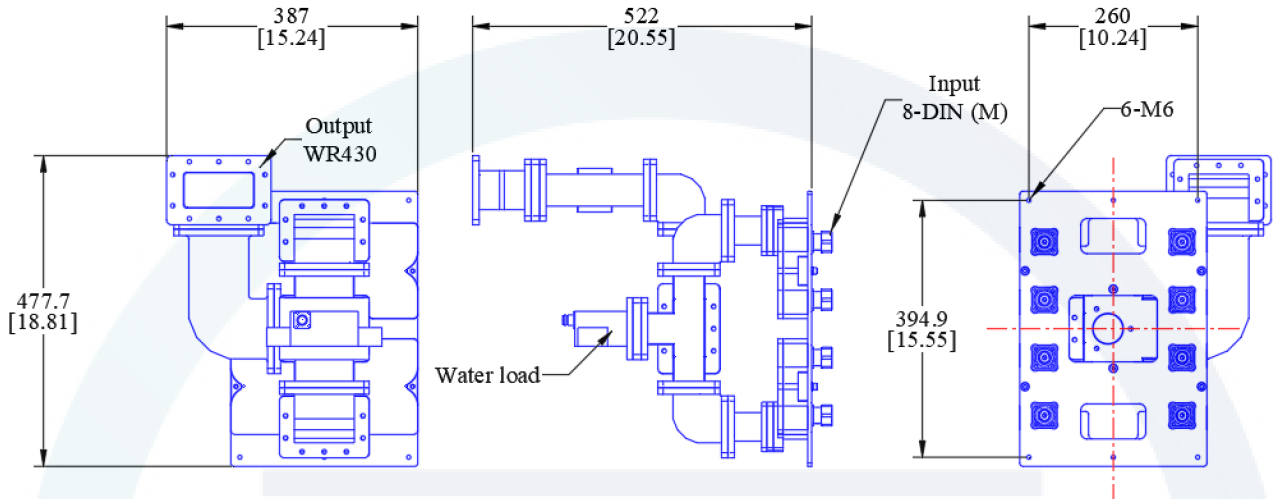
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Dimensions

Unit: mm[inch]



Note

* Specifications are subject to change without notice.

Option

1. DIN(F) to WR340 adapter
2. WR340 directional coupler
3. WR340 / WR284 waveguide output

Revision History

Part Number	Release Date	Version	Description	Data Sheet Status
RIW242512K-0	18 th Oct. 2021	0.1	1 st release	Preliminary

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