

Preliminary

Waveguide Combiner / S-BAND 8way Combiner

RIW2425-12K

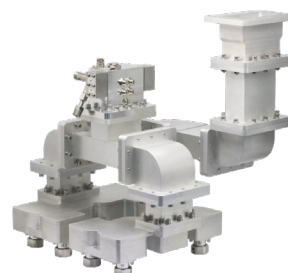


Product Features

- 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	387 x 260 x 522
RF Input / Output Interface	-	DIN(M) / WR430
Weight	kg	Max. 20
Water Cooling Interface	-	Rc1/4
Material / Surface finish	-	Al / Chromate

Preliminary

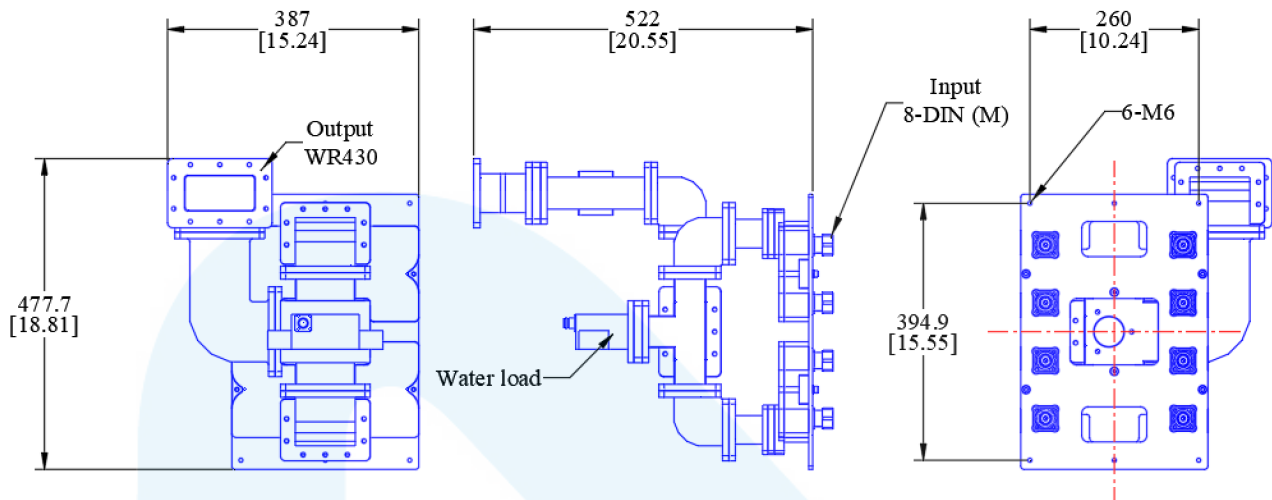
Waveguide Combiner / S-BAND 8way Combiner



RIW2425-12K

Dimensions

Unit: mm[inch]



Note

* Specifications are subject to change without notice.

Option

1. DIN(F) to WR430 adapter
2. WR340 directional coupler
3. WR340 / WR430 waveguide output

Revision History

Part Number	Release Date	Version	Description	Data Sheet Status
RIW2425-12K	18 th Oct. 2021	0.1	1 st release	Preliminary

Preliminary

Waveguide Combiner / S-BAND 8way Combiner

RIW2425-12K



Certification

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

RFHIC Corporation reserves the right to make changes to any products herein or to discontinue any product at any time without notice. While product specifications have been thoroughly examined for reliability, RFHIC Corporation strongly recommends buyers to verify that the information they are using is accurate before ordering. RFHIC Corporation does not assume any liability for the suitability of its products for any particular purpose, and disclaims any and all liability, including without limitation consequential or incidental damages. RFHIC products are not intended for use in life support equipment or application where malfunction of the product can be expected to result in personal injury or death. Buyer uses or sells such products for any such unintended or unauthorized application, buyer shall indemnify, protect, and hold RFHIC Corporation and its directors, officers, stockholders, employees, representatives and distributors harmless against any and all claims arising out of such unauthorized use. All sales inquiries and support should be directed to the local authorized geographic distributor for RFHIC Corporation. For customers in the US, please contact the US sales team through our website at <https://rfhic.com/rfhic-us/>. For all other inquiries, please contact our international sales team through our website portal at <https://rfhic.com/contact/>.

