

Preliminary

Waveguide Combiner / C-BAND 4 way Combiner

RRW5459-AC010



Product Features

- 4 way Magic-T Combiner
- Waveguide Output Interface
- N(F) Input Interface
- Water cooling interface

Applications

- High power SSPA combining
- Weather radar
- Maritime surveillance radar
- Space debris detection radar



Description

The RRW5459-AC010, 4 way magic T combiner is designed for the high power SSPA combining application. The RRW5459-AC010 was applied to RFHIC 6kW, 8.5kW, 15kW, and 30kW transmitter, RRK54596K0-780, RRK56578K5-790, RRK545915K-440, and RRK545930K-440 each.

Electrical Specifications

PARAMETER	UNIT	SPECIFICATION
Operating Frequency	GHz	5.4 ~ 5.9
Insertion Loss ¹	dB	< 0.3
Amplitude Balance	dB	± 0.3
Phase Balance	°	± 5
Isolation	dB	> 20
Output VSWR	-	< 1.4 : 1
Power handling each Input	W	Peak 1.5kW

¹ This value includes adapter loss.

Mechanical Specifications

PARAMETER	UNIT	VALUE
Dimensions(W x D x H)	mm	356.8 x 184.9 x 75.6
RF Input / Output Interface	-	N(F) / CMR137
Weight	kg	2.5 Max
Water cooling interface	-	1/4PT
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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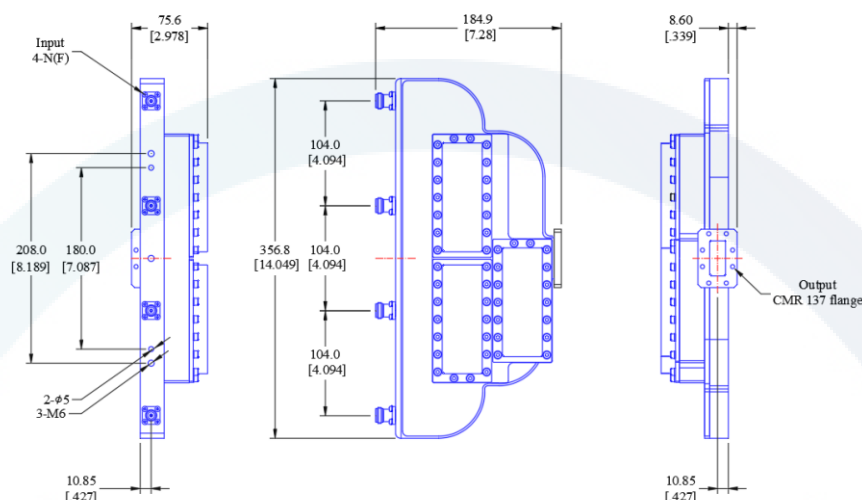
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RFHIC

Dimensions

Unit: mm[inch]



Note

* Specifications are subject to change without notice.

Option

1. WR137 to WR159 adapter
2. N(F) to WR137 adapter
3. WR137 directional coupler

Revision History

Part Number	Release Date	Version	Description	Data Sheet Status
RRW5459-AC010	27 Apr. 2021	0.1	1 st release	Preliminary

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