



137WMT WR137 Waveguide Magic Tee 5.85-8.2GHz with Four Rectangular Waveguide Interfaces

WR137 Waveguide Magic Tee Operating From 5.85 to 8.2GHz with Four Rectangular Waveguide Interfaces

Product Information

SKU	137WMT
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Description

Waveguide magic tee 137WMT, operating from 5.85 to 8.2GHz with a 0.3dB insertion loss, 40dB isolation, H-Plane VSWR 1.30:1 and E-Plane VSWR 1.50:1. 137WMT is a four-ports hybrid coupler or power divider. All the ports have standard WR137 waveguides with the same flanges FDP70(UDR70). The magic tee can be used as a power combiner or a power divider based on the given application's needs.

Technical Specification

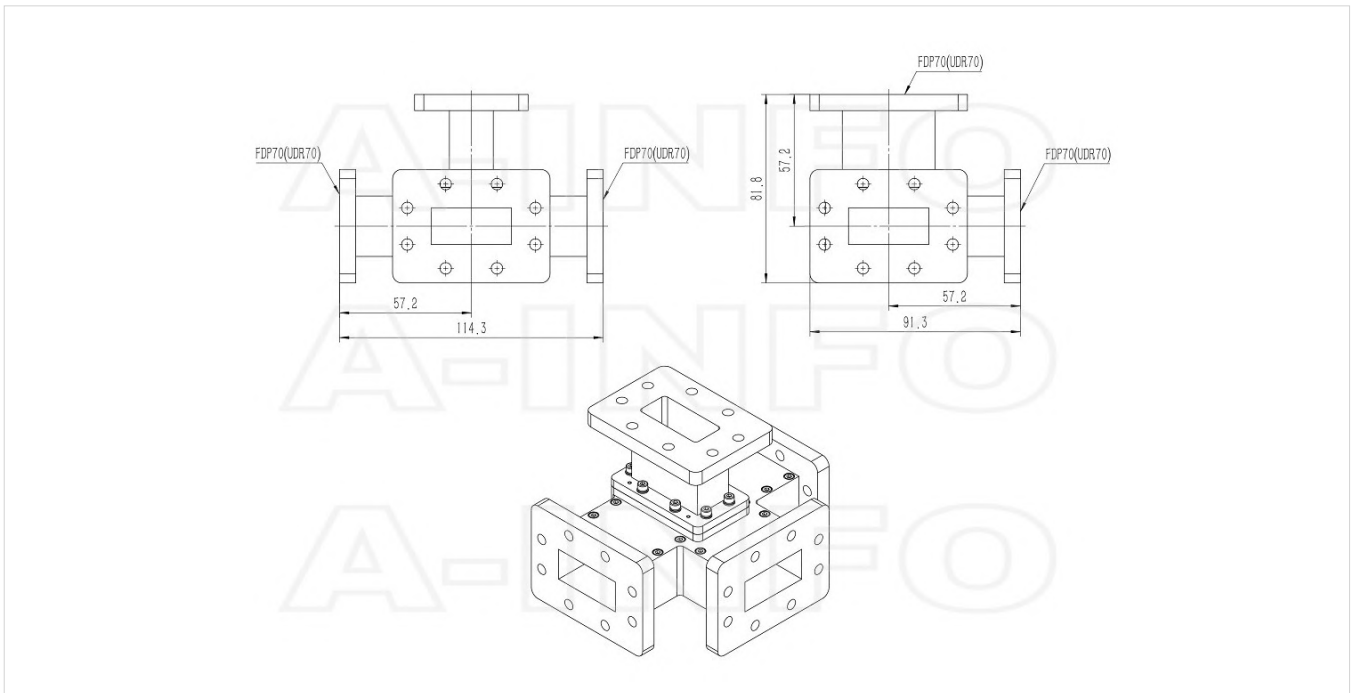
Electrical Specification	
WG Tee Type	Magic Tee
Waveguide Band	C X
Waveguide Type	Rectangular
Waveguide Size EIA WR	WR137
Frequency, Min (GHz)	5.85
Frequency, Max (GHz)	8.2
I.L., Typ (dB)	0.3
I.L., Max (dB)	0.6
VSWR, H-Plane, Typ	1.3
VSWR, H-Plane, Typ	1.30:1
VSWR, E-Plane, Typ	1.5
VSWR, E-Plane, Typ	1.50:1
Isolation, Min (dB)	30
Isolation, Typ (dB)	40
Power Handling, CW, (W)	1000
Power Handling, Peak, (KW)	550
Interface	
Flange 1 Style	Rectangular
Flange 1 Type	Cover
Flange 1 Designation	FDP70(UDR70)
Flange 2 Style	Rectangular
Flange 2 Type	Cover
Flange 2 Designation	FDP70(UDR70)

Interface	
Flange 3 Style	Rectangular
Flange 3 Type	Cover
Flange 3 Designation	FDP70(UDR70)
Flange 4 Style	Rectangular
Flange 4 Type	Cover
Flange 4 Designation	FDP70(UDR70)
Mechanical Specification	
Body Material	Al
Size, L (mm)	114.3
Size, W (mm)	91.3
Size, H (mm)	81.8
Weight, (kg)	0.5
Pressure Sealed	No
Environmental Specification	
Operating Temp. Low (°C)	-55
Operating Temp. High (°C)	85
Storage Temp. Low (°C)	-60
Storage Temp. High (°C)	90

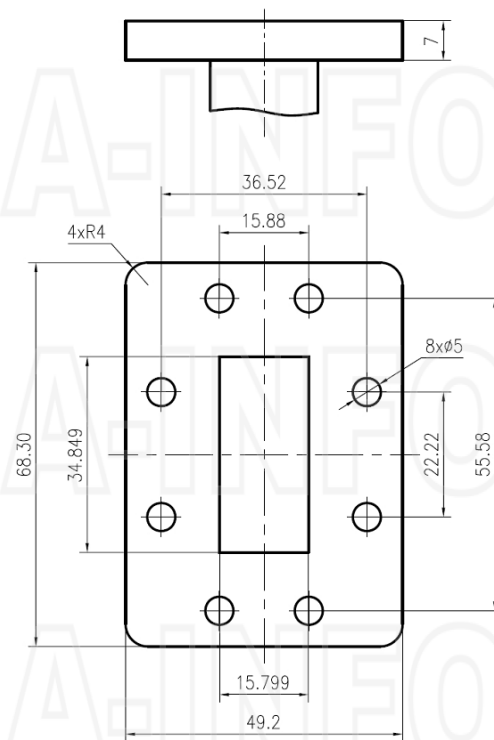
Additional Information

Application	General Purpose Indoor & Outdoor, Fixed
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Outline Drawing(Size: mm)



Flange Drawing(Size: mm)

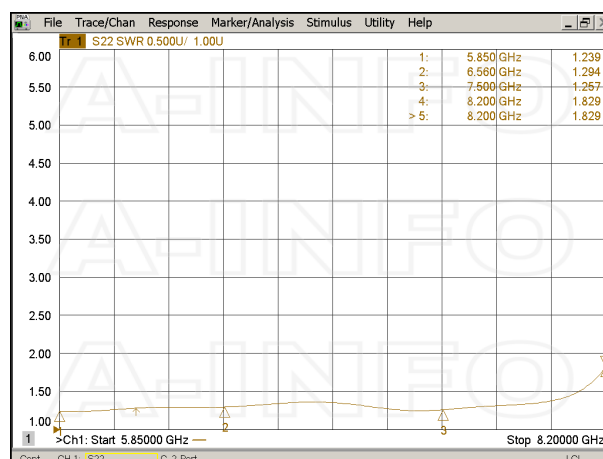


FDP70

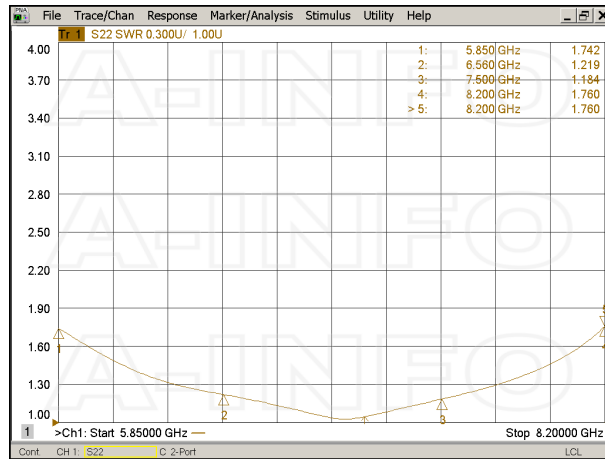
Typical Test Results

VSWR

E-Plane

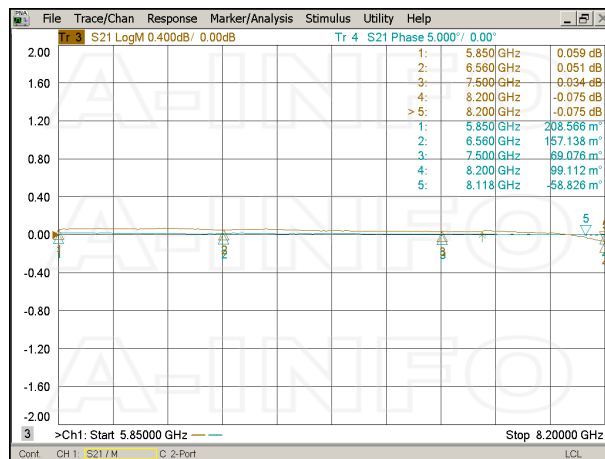


H-Plane

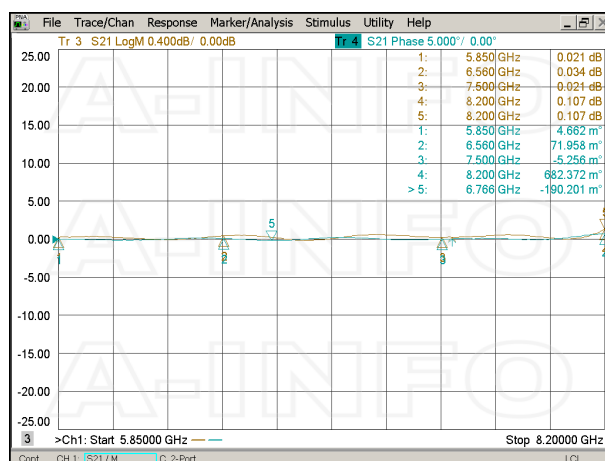


Unbalance

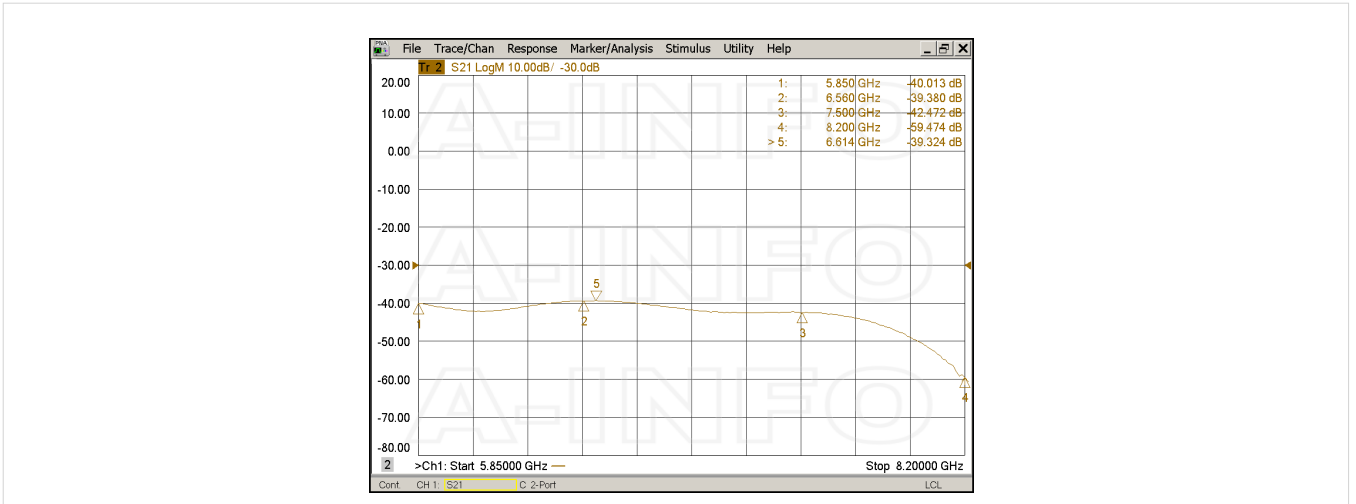
E-Plane



H-Plane



Isolation



Similar Products



112WET WR112 Waveguide E-Plane Tee 7.05-10GHz with Three Rectangular Waveguide Interfaces



112WHT WR112 Waveguide H-Plane Tee 7.05-10GHz with Three Rectangular Waveguide Interfaces



112WMT WR112 Waveguide Magic Tee 7.05-10GHz with Four Rectangular Waveguide Interfaces



137WET WR137 Waveguide E-Plane Tee 5.85-8.2GHz with Three Rectangular Waveguide Interfaces



137WHT WR137 Waveguide H-Plane Tee 5.85-8.2GHz with Three Rectangular Waveguide Interfaces



159WET WR159 Waveguide E-Plane Tee 4.9-7.05GHz with Three Rectangular Waveguide Interfaces



159WHT WR159 Waveguide H-Plane Tee 4.9-7.05GHz with Three Rectangular Waveguide Interfaces



159WMT WR159 Waveguide Magic Tee 4.9-7.05GHz with Four Rectangular Waveguide Interfaces

About this Datasheet

<ul style="list-style-type: none">● Product Information <p>Product Link: https://www.ainfoinc.com/137wmt-wr137-waveguide-magic-tee-5-85-8-2-ghz-fdp70-udr70 Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none">● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none">● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
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