

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

WR159 Waveguide Magic Tee Operating From 4.9 to 7.05GHz with Four Rectangular Waveguide Interfaces

Product Information

SKU	159WMT
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Description

Waveguide magic tee 159WMT, operating from 4.9 to 7.05GHz with a 0.3dB insertion loss, 40dB isolation, H-Plane VSWR 1.30:1 and E-Plane VSWR 1.50:1. 159WMT is a four-ports hybrid coupler or power divider. All the ports have standard WR159 waveguides with the same flanges FDP58(UDR58). The magic tee can be used as a power combiner or a power divider based on the given application's needs.

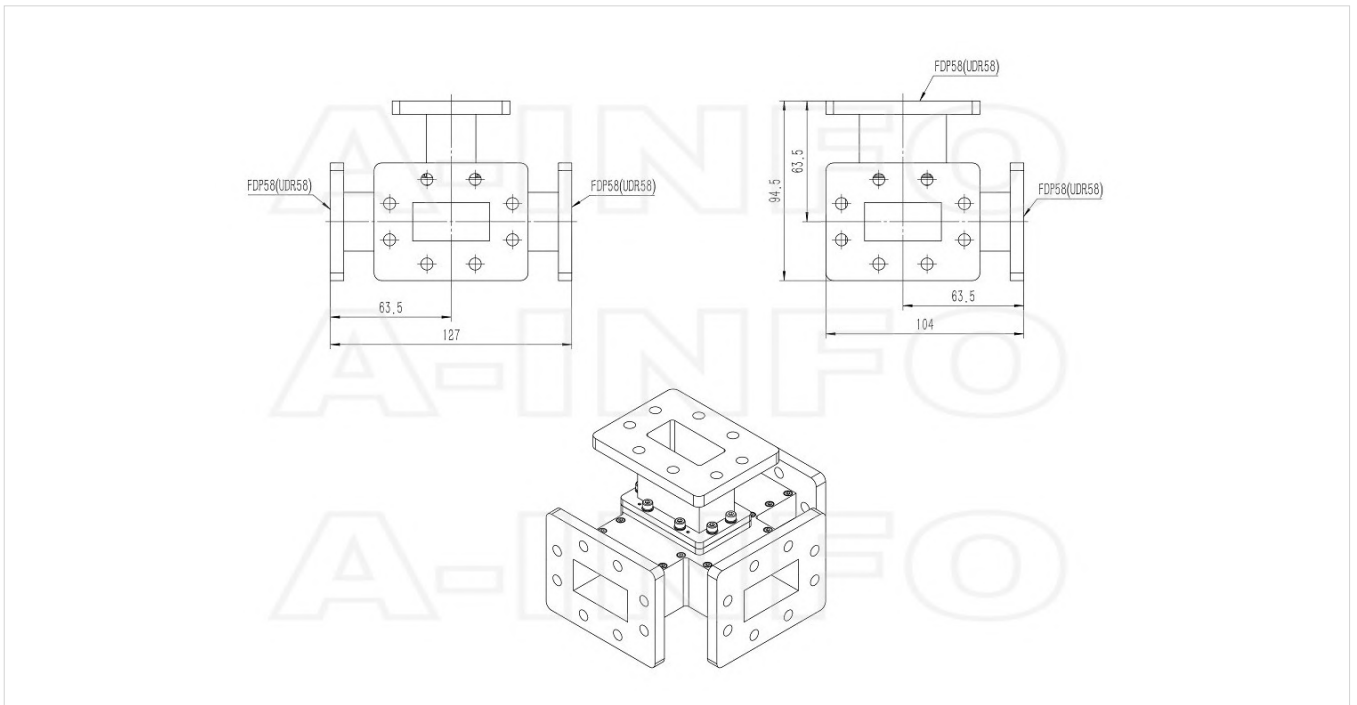
Technical Specification

Electrical Specification		Interface	
WG Tee Type	Magic Tee	Flange 3 Style	Rectangular
Waveguide Band	C	Flange 3 Type	Cover
Waveguide Type	Rectangular	Flange 3 Designation	FDP58(UDR58)
Waveguide Size EIA WR	WR159	Flange 4 Style	Rectangular
Frequency, Min (GHz)	4.9	Flange 4 Type	Cover
Frequency, Max (GHz)	7.05	Flange 4 Designation	FDP58(UDR58)
I.L., Typ (dB)	0.3	Mechanical Specification	
I.L., Max (dB)	0.5	Body Material	Al
VSWR, H-Plane, Typ	1.3	Finish	Chemical Conversion Coating, Gray Paint
VSWR, H-Plane, Typ	1.30:1	Size, L (mm)	127
VSWR, E-Plane, Typ	1.5	Size, W (mm)	104
VSWR, E-Plane, Typ	1.50:1	Size, H (mm)	94.5
Isolation, Min (dB)	30	Weight, (kg)	0.7
Isolation, Typ (dB)	40	Pressure Sealed	No
Power Handling, CW, (W)	1500	Environmental Specification	
Power Handling, Peak, (KW)	800	Operating Temp. Low (°C)	-55
Interface		Operating Temp. High (°C)	85
Flange 1 Style	Rectangular	Storage Temp. Low (°C)	-60
Flange 1 Type	Cover	Storage Temp. High (°C)	90
Flange 1 Designation	FDP58(UDR58)		
Flange 2 Style	Rectangular		
Flange 2 Type	Cover		
Flange 2 Designation	FDP58(UDR58)		

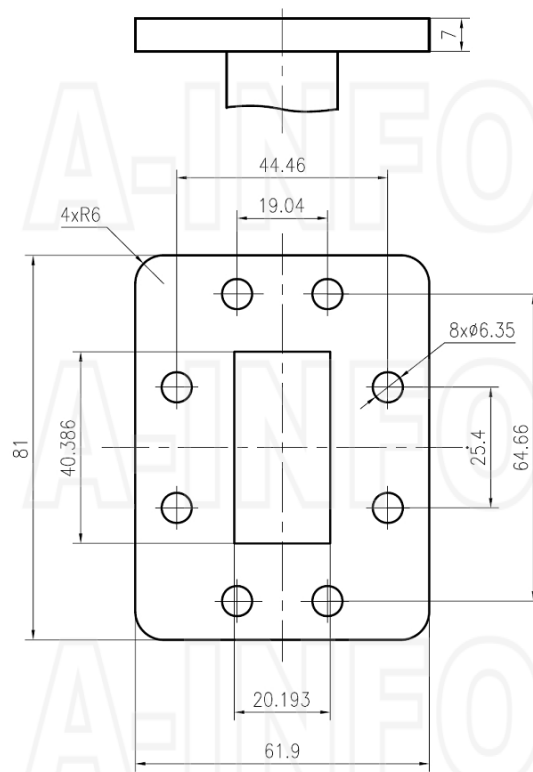
Additional Information

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



Flange Drawing(Size: mm)

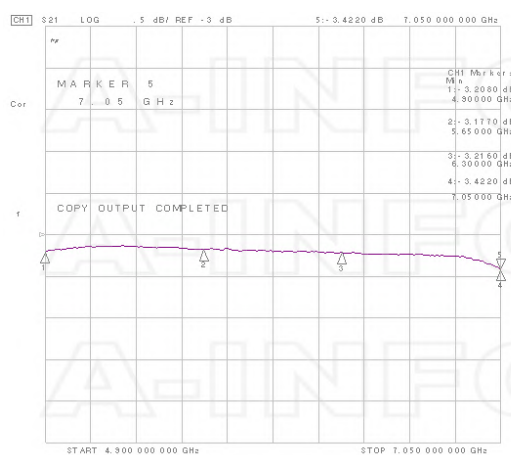


FDP58

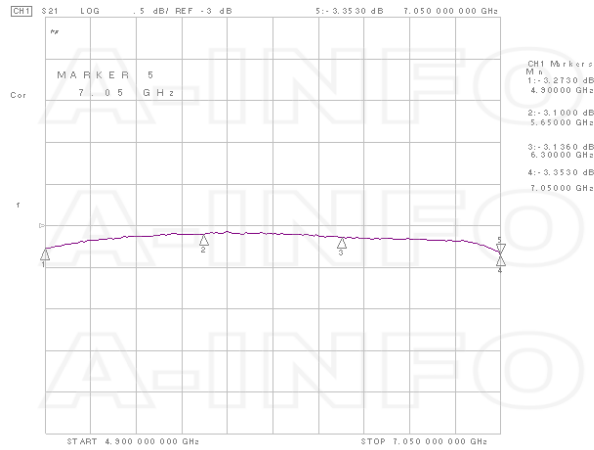
Typical Test Results

Insertion Loss(Including the theoretical loss 3.0dB)

E-Plane

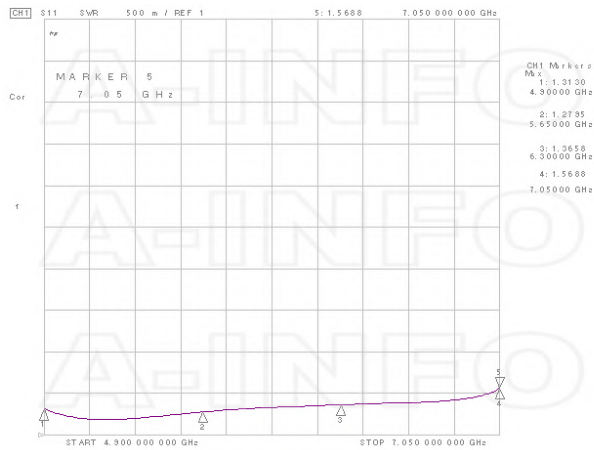


H-Plane

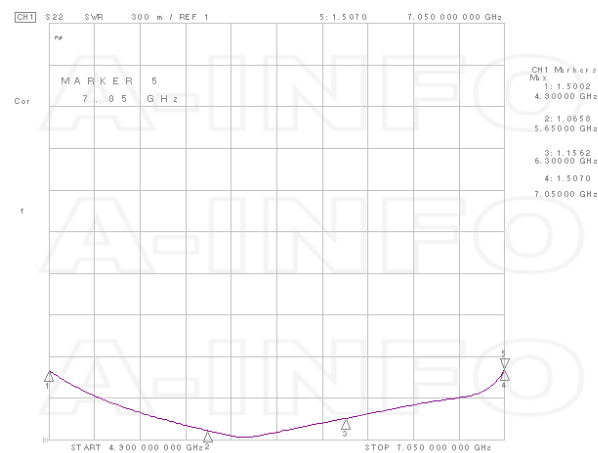


VSWR

E-Plane

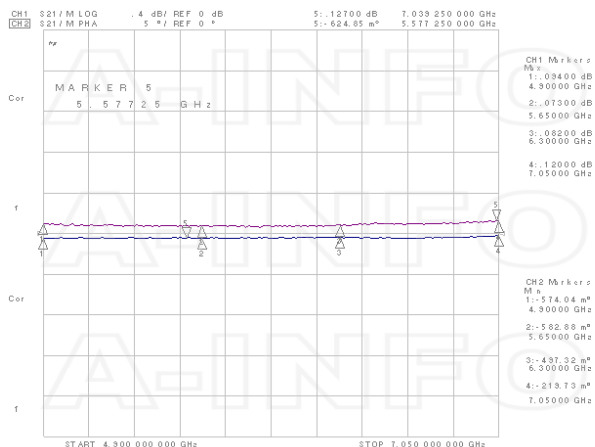


H-Plane

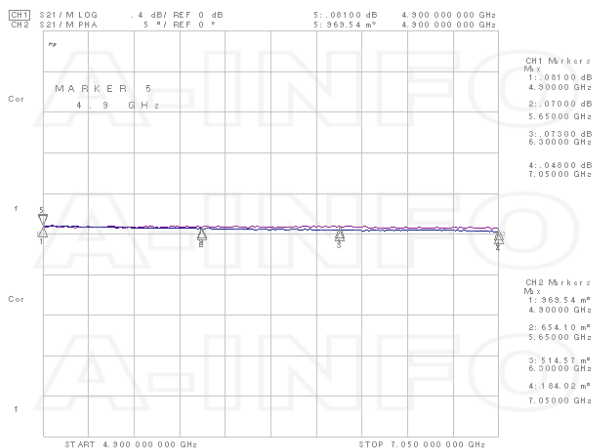


Unbalance

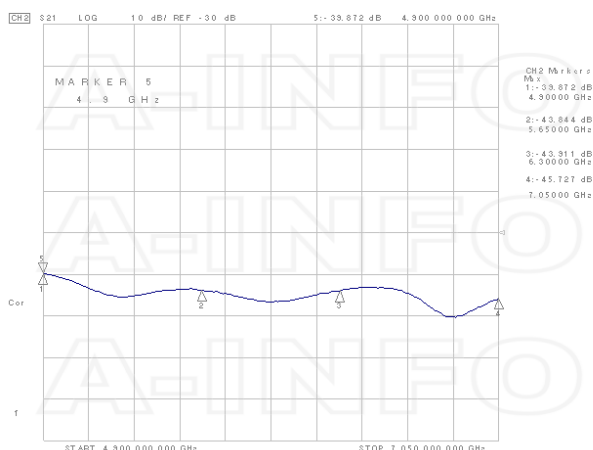
E-Plane



H-Plane



Isolation



Similar Products



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



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



187WET WR187 Waveguide E-Plane Tee 3.95-5.85GHz with Three Rectangular Waveguide Interfaces



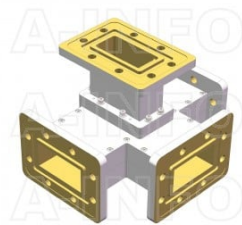
187WET/C10 WR187 Waveguide E-Plane Tee 4.4-5GHz with Three Rectangular Waveguide Interfaces



187WHT WR187 Waveguide H-Plane Tee 3.95-5.85GHz with Three Rectangular Waveguide Interfaces



187WMT WR187 Waveguide Magic Tee 3.95-5.85GHz with Four Rectangular Waveguide Interfaces



187WMT_DMDMDMDM WR187 Waveguide Magic Tee 3.95-5.85GHz with Four Rectangular Waveguide Interfaces

About this Datasheet

<ul style="list-style-type: none">● Product Information <p>Product Link: https://www.ainfoinc.com/159wmt-wr159-waveguide-magic-tee-4-9-7-05-ghz-fdp58-udr58 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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