

229WMT WR229 Waveguide Magic Tee 3.3-4.9GHz with Four Rectangular Waveguide Interfaces

WR229 Waveguide Magic Tee Operating From 3.3 to 4.9GHz with Four Rectangular Waveguide Interfaces

Product Information

SKU	229WMT
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Description

Waveguide magic tee 229WMT, operating from 3.3 to 4.9GHz with a 0.3dB insertion loss, 40dB isolation, H-Plane VSWR 1.30:1 and E-Plane VSWR 1.50:1. 229WMT is a four-ports hybrid coupler or power divider. All the ports have standard WR229 waveguides with the same flanges FDP40(UDR40). The magic tee can be used as a power combiner or a power divider based on the given application's needs.

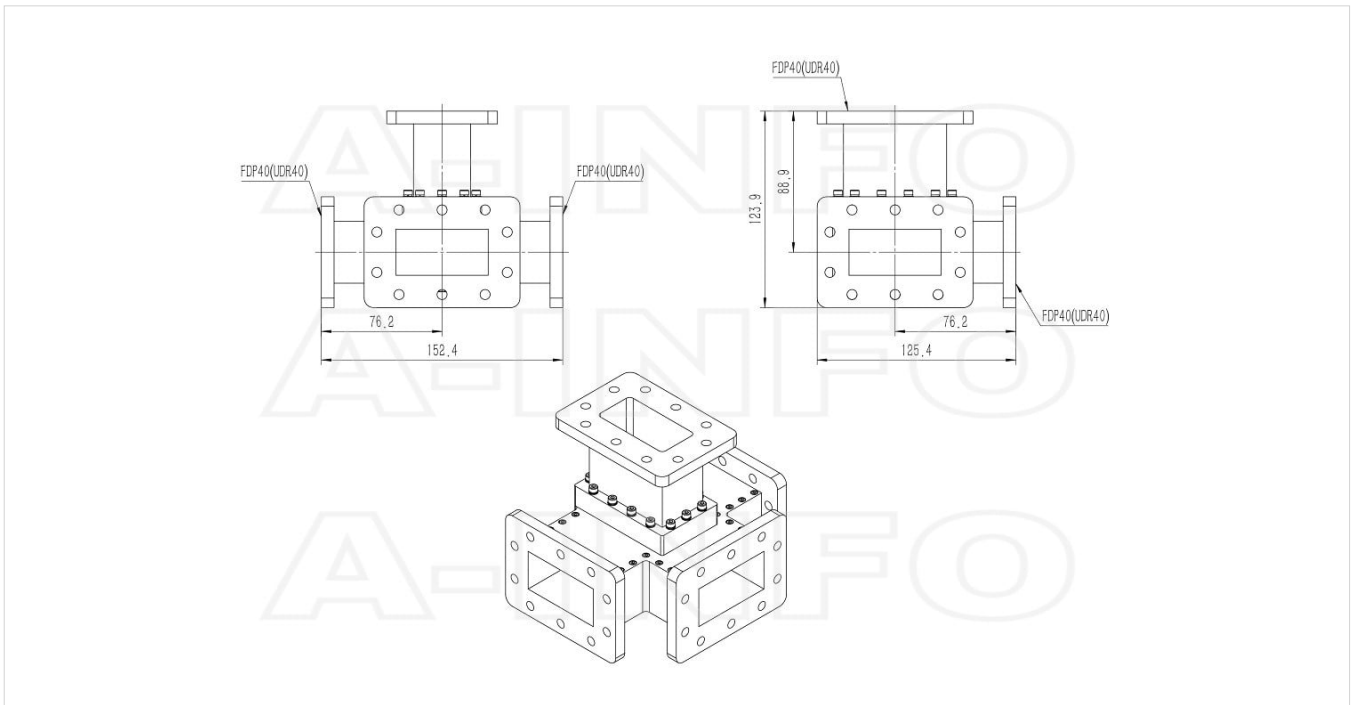
Technical Specification

Electrical Specification		Interface	
WG Tee Type	Magic Tee	Flange 3 Style	Rectangular
Waveguide Band	S C	Flange 3 Type	Cover
Waveguide Type	Rectangular	Flange 3 Designation	FDP40(UDR40)
Waveguide Size EIA WR	WR229	Flange 4 Style	Rectangular
Frequency, Min (GHz)	3.3	Flange 4 Type	Cover
Frequency, Max (GHz)	4.9	Flange 4 Designation	FDP40(UDR40)
I.L., Typ (dB)	0.3	Mechanical Specification	
I.L., Max (dB)	0.6	Body Material	Al
VSWR, H-Plane, Typ	1.3	Size, L (mm)	152.4
VSWR, H-Plane, Typ	1.30:1	Size, W (mm)	125.4
VSWR, E-Plane, Typ	1.5	Size, H (mm)	123.9
VSWR, E-Plane, Typ	1.50:1	Weight, (kg)	1.14
Isolation, Min (dB)	30	Pressure Sealed	No
Isolation, Typ (dB)	40	Environmental Specification	
Power Handling, CW, (W)	3300	Operating Temp. Low (°C)	-55
Power Handling, Peak, (KW)	1700	Operating Temp. High (°C)	85
Interface		Storage Temp. Low (°C)	-60
Flange 1 Style	Rectangular	Storage Temp. High (°C)	90
Flange 1 Type	Cover		
Flange 1 Designation	FDP40(UDR40)		
Flange 2 Style	Rectangular		
Flange 2 Type	Cover		
Flange 2 Designation	FDP40(UDR40)		

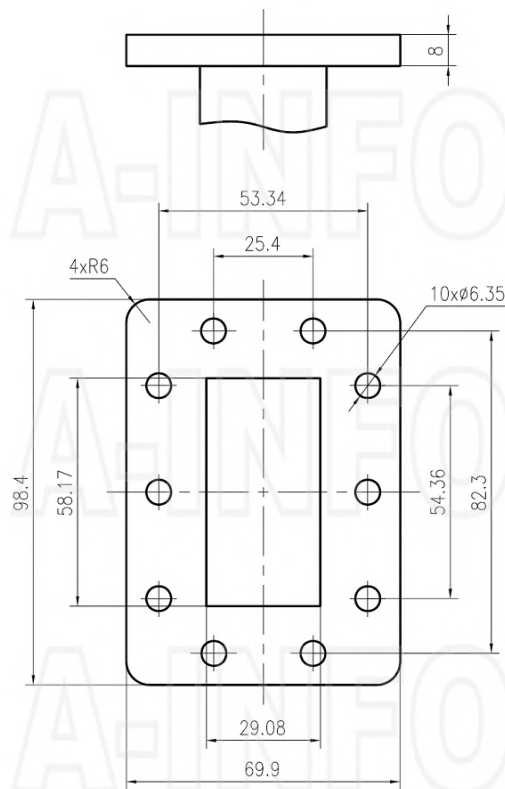
Additional Information

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



Flange Drawing(Size: mm)

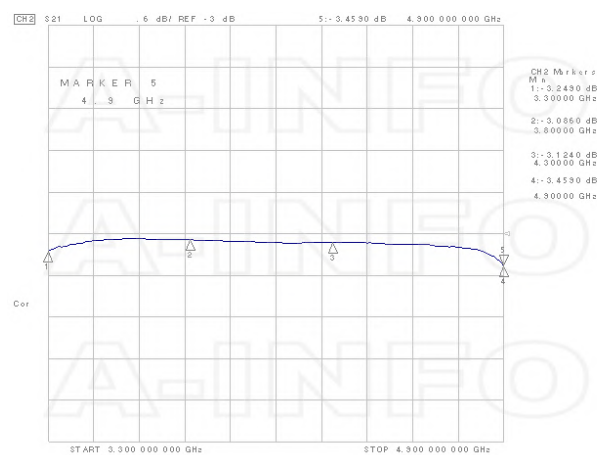


FDP40

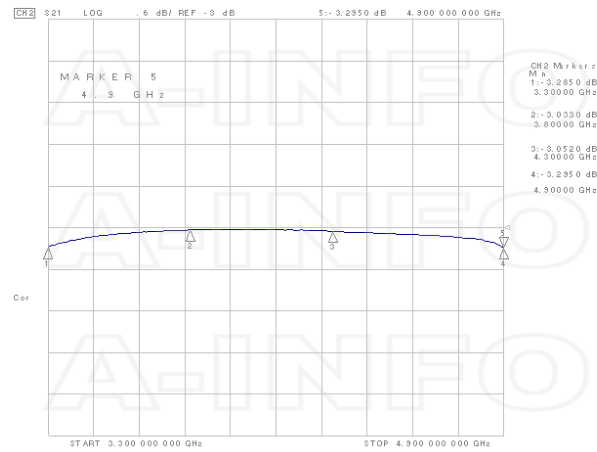
Typical Test Results

Insertion Loss(Including the theoretical loss 3.0dB)

E-Plane

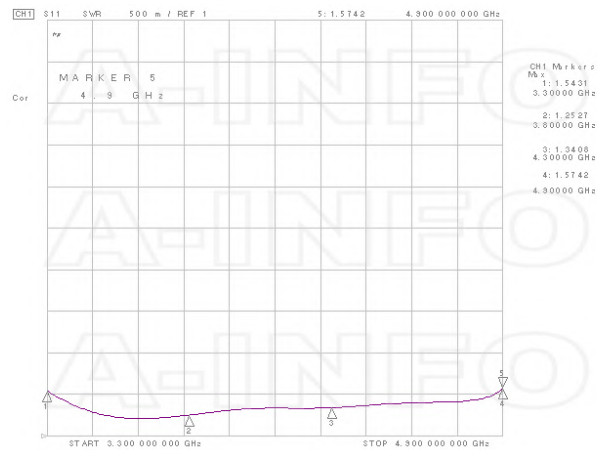


H-Plane

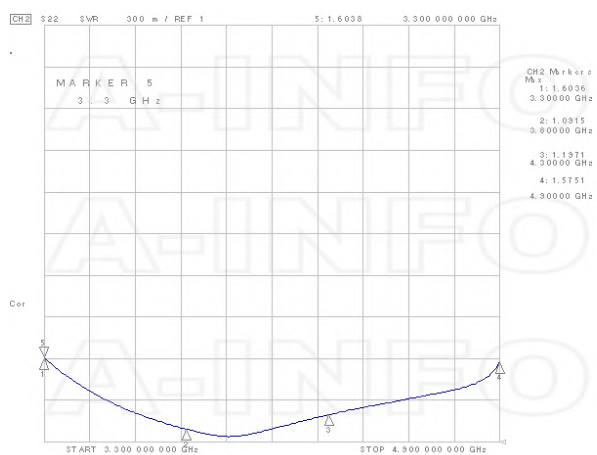


VSWR

E-Plane

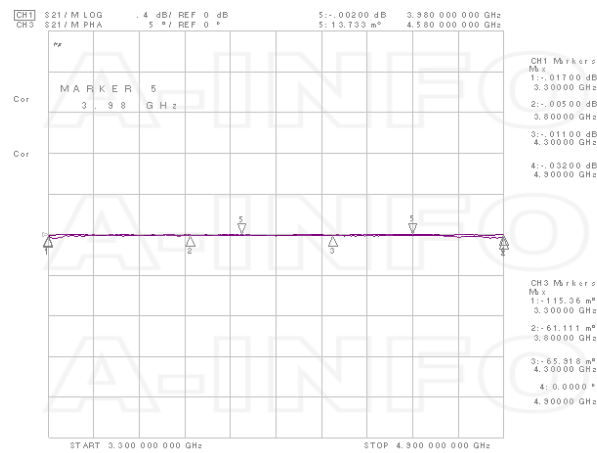


H-Plane

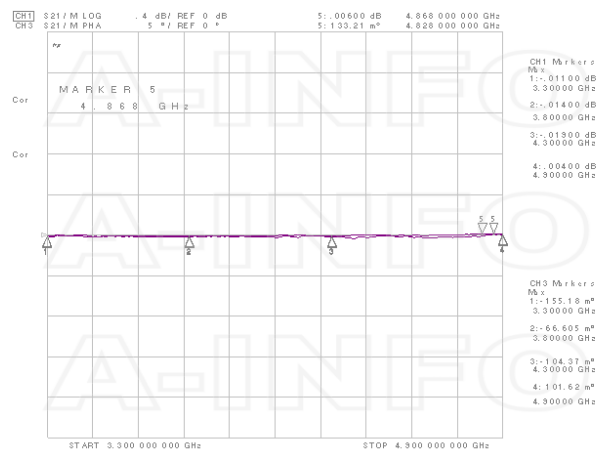


Unbalance

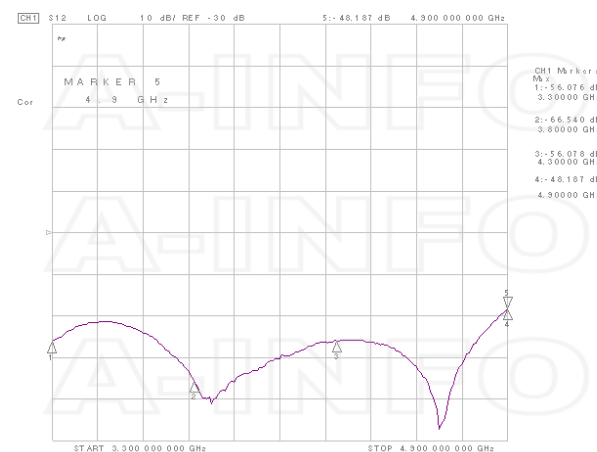
E-Plane



H-Plane



Isolation



Similar Products



229WET WR229 Waveguide E-Plane Tee 3.3-4.9GHz with Three Rectangular Waveguide Interfaces



229WHT WR229 Waveguide H-Plane Tee 3.3-4.9GHz with Three Rectangular Waveguide Interfaces



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



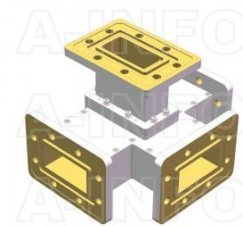
187WET/C10 WR187 Waveguide E-Plane Tee 4.4-5GHz with Three Rectangular Waveguide Interfaces



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



284WET WR284 Waveguide E-Plane Tee 2.6-3.95GHz with Three Rectangular Waveguide Interfaces



284WHT WR284 Waveguide H-Plane Tee 2.6-3.95GHz with Three Rectangular Waveguide Interfaces



284WMT WR284 Waveguide Magic Tee 2.6-3.95GHz with Four Rectangular Waveguide Interfaces



284WMT_PM5 WR284 Waveguide Magic Tee 2.6-3.95GHz with Four Rectangular Waveguide Interfaces



284WMT_PM6 WR284 Waveguide Magic Tee 2.6-3.95GHz with Four Rectangular Waveguide Interfaces

About this Datasheet

<ul style="list-style-type: none"> ● Product Information Product Link: https://www.ainfoinc.com/229wmt-wr229-waveguide-magic-tee-3-3-4-9-ghz-fdp40-udr40 Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved 	<ul style="list-style-type: none"> ● Contact Us Address: 60 Tesla, Irvine, CA 92618, USA Website: www.ainfoinc.com Email: sales@ainfoinc.com 	<ul style="list-style-type: none"> ● Phone & Fax Phone: +1-949-639-9688 +1-949-639-9608 Fax: +1-949-639-9670
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