

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

WR187 Waveguide Magic Tee Operating From 3.95 to 5.85GHz with Four Rectangular Waveguide Interfaces

Product Information

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| SKU | 187WMT |
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Description

Waveguide magic tee 187WMT, operating from 3.95 to 5.85GHz with a 0.3dB insertion loss, 40dB isolation, H-Plane VSWR 1.30:1 and E-Plane VSWR 1.50:1. 187WMT is a four-ports hybrid coupler or power divider. All the ports have standard WR187 waveguides with the same flanges FDP48(UDR48). The magic tee can be used as a power combiner or a power divider based on the given application's needs.

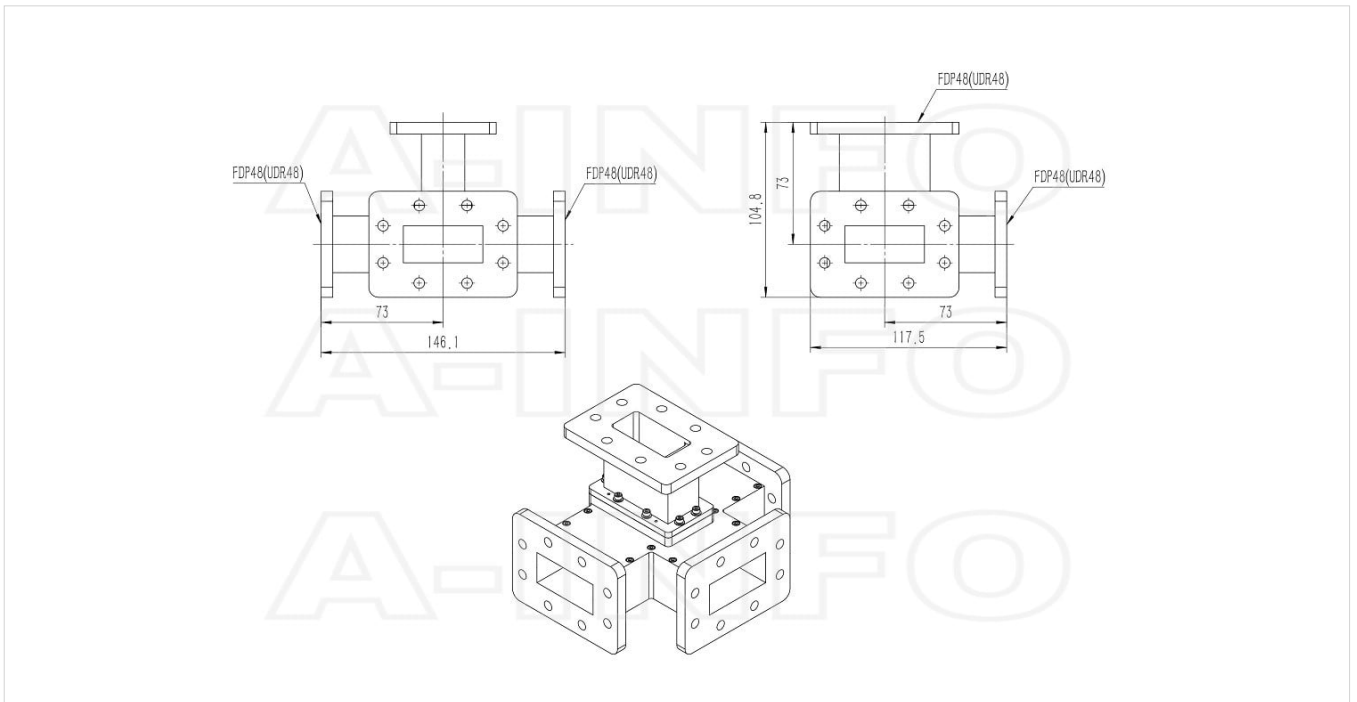
Technical Specification

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|---------------------------------|--------------|------------------------------------|--|
| 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 | FDP48(UDR48) |
| Waveguide Size EIA WR | WR187 | Flange 4 Style | Rectangular |
| Frequency, Min (GHz) | 3.95 | Flange 4 Type | Cover |
| Frequency, Max (GHz) | 5.85 | Flange 4 Designation | FDP48(UDR48) |
| I.L., Typ (dB) | 0.3 | Mechanical Specification | |
| I.L., Max (dB) | 0.6 | 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) | 146.1 |
| VSWR, E-Plane, Typ | 1.5 | Size, W (mm) | 117.5 |
| VSWR, E-Plane, Typ | 1.50:1 | Size, H (mm) | 104.8 |
| Isolation, Min (dB) | 30 | Weight, (kg) | 0.88 |
| Isolation, Typ (dB) | 40 | Pressure Sealed | No |
| Power Handling, CW, (W) | 1800 | Environmental Specification | |
| Power Handling, Peak, (KW) | 1000 | 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 | FDP48(UDR48) | | |
| Flange 2 Style | Rectangular | | |
| Flange 2 Type | Cover | | |
| Flange 2 Designation | FDP48(UDR48) | | |

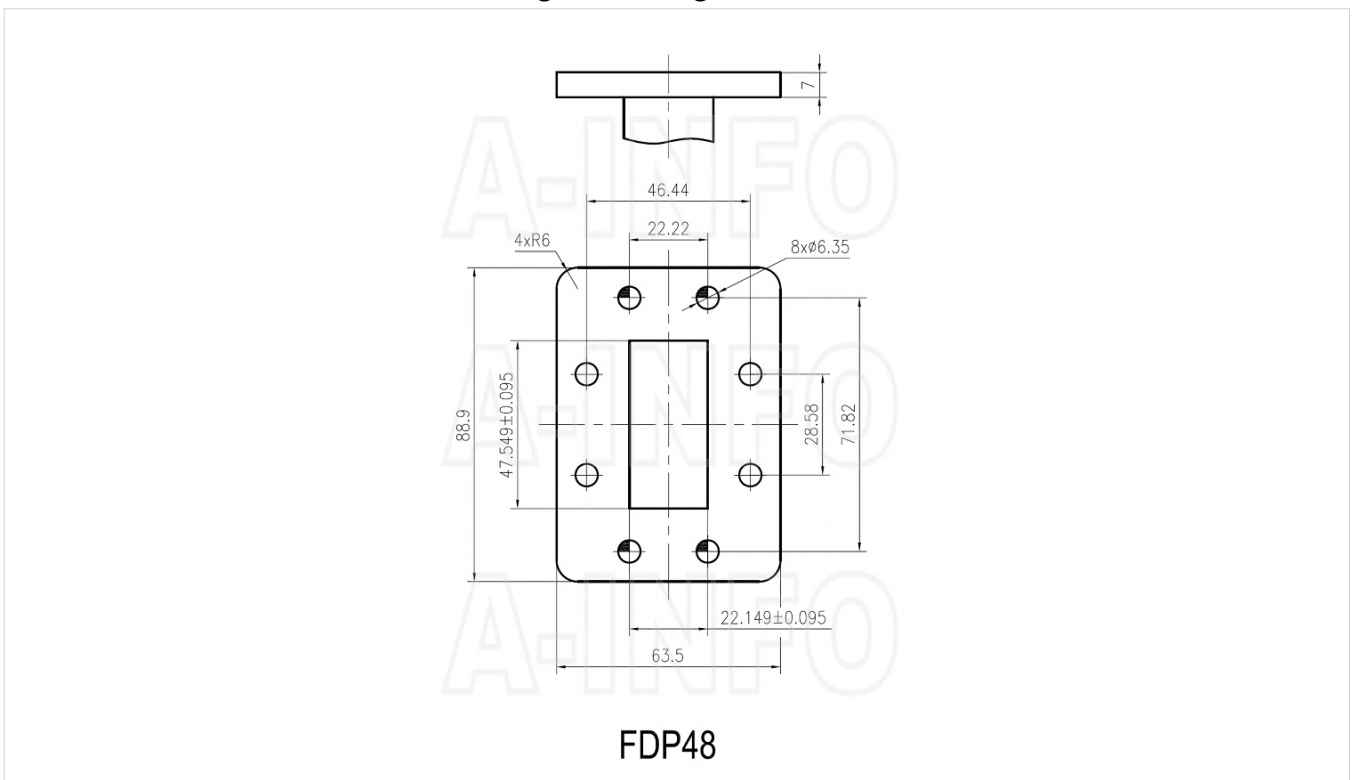
Additional Information

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



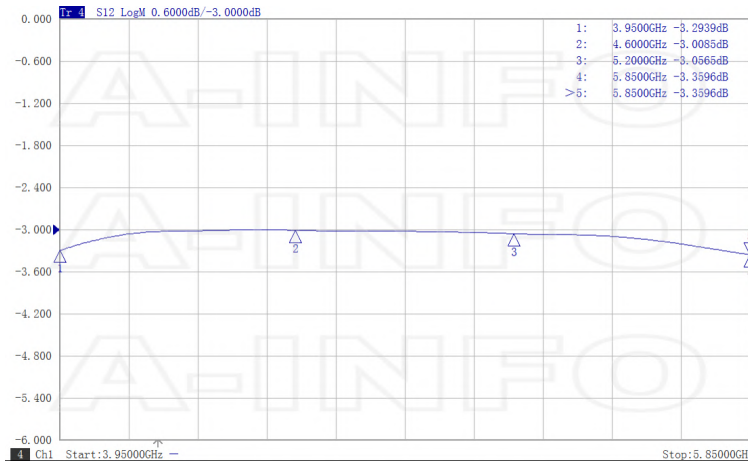
Flange Drawing(Size: mm)



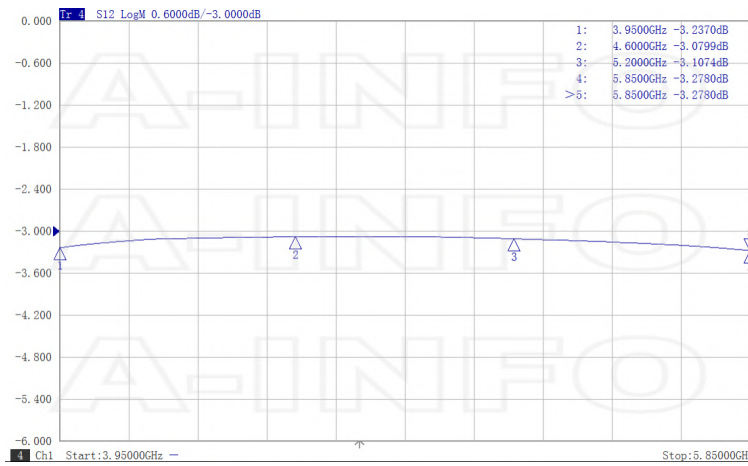
Typical Test Results

Insertion Loss(Including the theoretical loss 3.0dB)

E-Plane

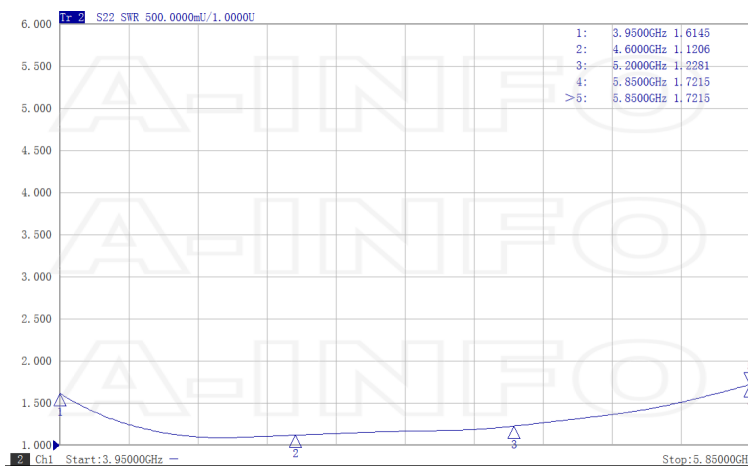


H-Plane

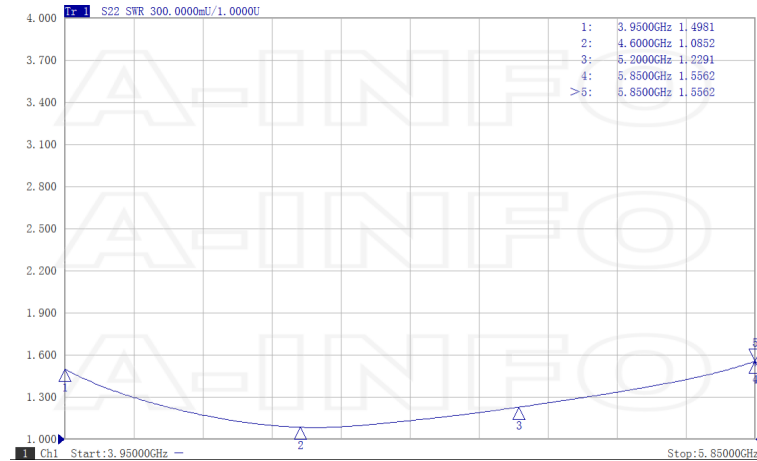


VSWR

E-Plane

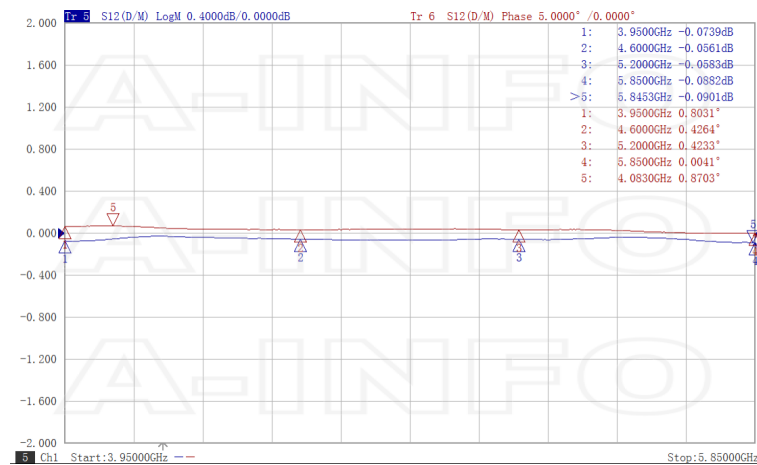


H-Plane

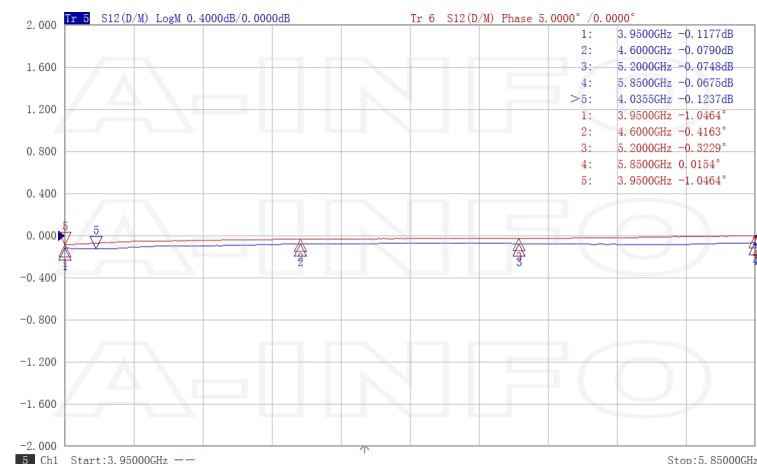


Unbalance

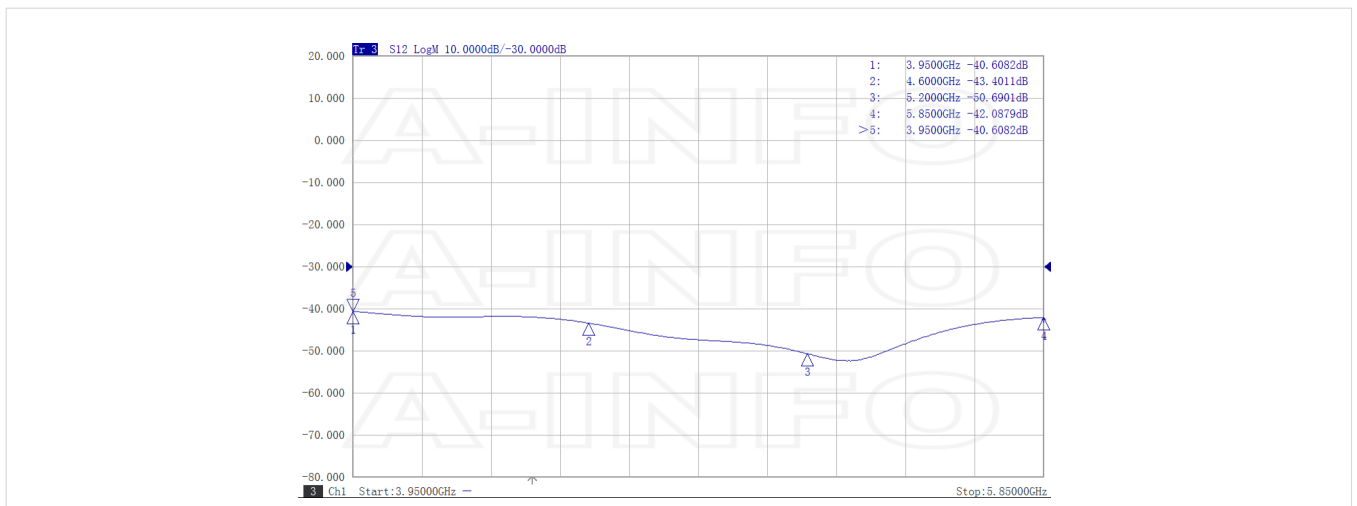
E-Plane



H-Plane



Isolation



Similar Products



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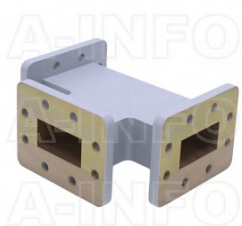
112WHT WR112 Waveguide H-Plane Tee 7.05-10GHz with Three Rectangular Waveguide Interfaces



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



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



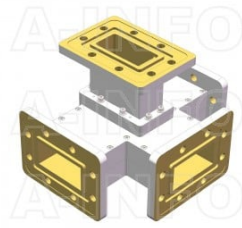
187WET WR187 Waveguide E-Plane Tee 3.95-5.85GHz with Three Rectangular Waveguide Interfaces



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

About this Datasheet

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|---|--|---|
| <ul style="list-style-type: none"> ● Product Information <p>Product Link: https://www.ainfoinc.com/187wmt-wr187-waveguide-magic-tee-3-95-5-85-ghz-fdp48-udr48 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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