



TECHNICAL DATA SHEET

Pasternack's instrumentation grade waveguide sections are constructed of a high quality oxygen free hard copper with high precision mechanical tolerances as tight as ±0.001" that ensures repeatable and consistent RF performance. Our commercial and instrumentation grade waveguide sections range in size from WR-12 to WR-137 and include grooved and non-grooved btgGGHMWDQDGOOHWKI3DWHQFNDMXGHMFWLRQHRIHHGIBPWRLQEHPHQ/DQHDFK DMXGHMFWLRQDDEOHGIRHDVGHQ/EDWLRWRPOHWWBHDDLODDHXBTAW2ØRPPHBLDODGHDM-XGHMFWLRQDDEOWLGRWWBHQVDWLRQGHMMRQH&GROGODWHGRMDFRBDK

Features

- 5WR5DM&GH6HFWLRQ
- Grooved and Non-Grooved Flange Designs
- Available for frequency ranges between 5.8 GHz to 90 GHz
- RPBHIZMDMILGHRIIHLUQORLEOGHV
 - %HQ%HQ.V DMLGHWR&D[\$D5VH)LOWHV Terminations, and more.

PE-W42S002-3

High Precision Tolerance as Tight as ±0.001"

Electrical Specifications

| Minimum | Typical | Maximum | Units |
|---------|---------|-------------|--------------|
| 18 | | 26.5 | GHz |
| | | | |
| | | 0.08 [0.26] | dB/ft [dB/m] |
| | | | 18 26.5 |

Mechanical Specifications

| Waveguide Si | е |
|----------------|----|
| Waveguide Desi | gn |
| 6HFWLRCHODYK | |

W -42 Instrumentation Grade

| Description | Flange 1 | Waveguide | Flange 2 |
|--------------------|---------------------------|---------------------------|---------------------------|
| Flange Type | S uare Cover | | S uare Cover |
| Flange Designation | U - U | W -42 | U - U |
| Material | xygen Free ard Copper | xygen Free ard Copper | xygen Free ard Copper |
| Plating | ard old over Copper Flash | ard old over Copper Flash | ard old over Copper Flash |
| Color | old | old | old |
| | | | |

Size Weight

0.128 lbs [58.06 g]

Compliance Certifications (see product page for current document)

1RWHV

• 9DOMDWMDOHMO

©LFNWHIROORZQLQRHQHBW®LUQ(\$&BZEWHWRRE/DLQGGLWLRQOBWLORDDWLORDDWLRQOSLOFH LQQ/RDQFHW/LEDWLRQ 5,00/8H0/DWLRQGH6WDLWDMLGH6HFWLRQE/H0/836T&H &M)ODDUIDPWR}3(6

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

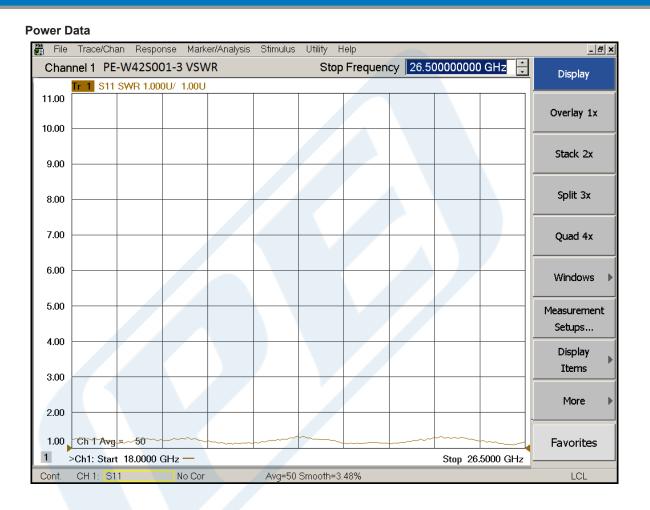






5,%/®H%/DWLR©IGH6WDLK/DM&GH6HFWLR,©EK /H%/K86T⊗H&M),0DD€HRP}/VR}

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EVEW R

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2.50

2.00

1.50

1.00

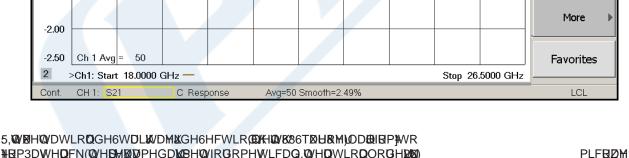
0.50

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-0.50

-1.00

-1.50



#BP3DWHQFN(00/HBMD0/DPHGD128H00/IRGRPHWLFDQ,00/HQWLRQORGHD030) and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

ØLFNWHIROORZQLQRHQ/HBW/28HUG(\$&24EWHWRRE/DLQGGLWLRQOBW/LQEDWLRQEO&LSFH LEQUYRDQFHW/LFDWLRQ 5,0000H00/DWLRQGH6WDLWDM&GH6HFWLRQBH400836T00H 8M) OD BUR PWR +3(6

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85/WWBWHQFNFRPDOW&HOVDWLROODLWDMKGHMFWLROODUB

👸 File Trace/Chan Response Marker/Analysis Stimulus Utility Help

Channel 1 PE-W42S001-3 IL

r 2 S21 LogM 0.500dB/ 0.00dB

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



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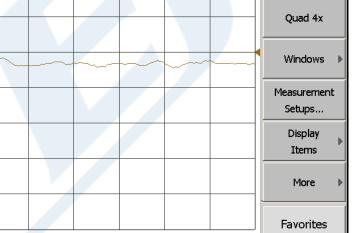
Display

Overlay 1x

Stack 2x

Split 3x





Stop Frequency 26.50000000 GHz



PE-W42S002-3 CAD Drawing

