

## Specialists in Attenuation and RF Switching 2000 Catalog



## The J FW Profile...

"JFW is committed to anticipating and exceeding customer's requirements and expectations through cost-competitive, quality products and services that are delivered on time."

Now entering our 4th decade, JFW Industries is a leading designer and manufacturer of innovative RF solutions that include Attenuators, Terminations, Switches, Power Dividers, Matrix Switches, and specialized Test Systems. Located in Indianapolis, Indiana, JFW has over 140 team members working in an ISO 9001 certified environment to exceed the Quality and Service expectations of every single customer.

Our dedicated Engineering team, with over 70 years of combined experience in the RF and Microwave industry, works together with our unsurpassed Customer Service department to provide application specific solutions at a price you can afford. The ability to respond to the specific needs of the customer has JFW devices being used in applications from Broadcast and Cable TV to Cellular/PCS signal verification and site installations.

## New Innovations...

In response to a rapidly changing market, JFW is constantly introducing new products that include:

- Broadband Solid State Programmable Attenuators (800-3000 MHz)
- Complete Line of Low Cost Programmable Attenuators (DC-2500 MHz)
- Broadband Solid State Switches (20-4300 MHz)
- High Isolation, Narrow Band Power Dividers (40 dB minimum)
- Low Cost Fixed Attenuators (DC-3000 MHz)
- Complete Line of Fixed Attenuators and Terminations with 7/16 connectors
- New Miniature Rotary Attenuators (DC-2500 MHz)
- Surface Mount Voltage Variable Attenuator
- Multifunction Programmable Test Systems and Matrix Switches
- Improved Local Control Options on Test Systems via a Keypad/Display/Microcontroller

As part of an effort to stay ahead of engineering and buying trends, JFW has also redesigned our Home Page on the World Wide Web. Now easier to use, it features New Product Information, down-loadable specifications and outline drawings from all of JFW's published literature, as well as a direct Email link to our Customer Service department.

For more information on JFW and our products, please contact us or visit our web site at www.ffwindustries.com.

## QUALITY POLICY

## "JFW is committed to anticipating and exceeding customer's requirements and expectations through cost-competitive quality products and services that are delivered on time."

Standard Terms and Conditions
J FW Industries, Inc. has standard terms of Net 30 days with approved credit. Alternate methods of payment include MASTERCARD and VISA. COD or ADVANCE PAYMENT.

International Payment Terms are ADVANCE PAYMENT, IRREVOCABLE LETTER OF CREDIT* or MASTERCARD and VISA.
Any other payment terms must be negotiated in advance.
*Letter of credit orders are subject to a processing fee.
FOB POINT is INDIANAPOLIS, INDIANA USA unless agreed to otherwise at time of order placement. ALL SHIPPING CHARGES will be PREPAID and ADDED TO THE INVOICE or SHIPPED COLLECT VIA YOUR DESIGNATED FREIGHT CARRIER.

## JFW INDUSTRIES WARRANTY

## Factory Location

5134 Commerce Square Drive Indianapolis, Indiana 46237

1-877-887-4J F W
317-887-1340 / Fax: 317-881-6790
Internet: http://www.jfwindustries.com
Email: sales@jfwindustries.com


## Power Dividers/Combiners

Resistive<br>Reactive



## Resistive Power Dividers/Combiners

| Model | Impedance | Configuration | $\begin{aligned} & \text { Frequency } \\ & \text { Range } \end{aligned}$ | Power Division Asymmetry | $\begin{aligned} & \text { Insertion } \\ & \text { Loss } \end{aligned}$ | VSWR <br> Maximum | RF Connectors |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-001 | 50 Ohms | 2-Way | DC-1000 MHz | $+/-.1 \mathrm{~dB}$ DC-500 MHz $+/-.2 \mathrm{~dB} 500-1000 \mathrm{MHz}$ | $6 \mathrm{~dB}+/-.3 \mathrm{~dB}$ | 1.1:1 DC-500 MHz 1.2:1 $500-1000 \mathrm{MHz}$ | $\begin{array}{\|l\|} \hline \mathrm{N} \text { male } \\ \mathrm{N} \text { female } \end{array}$ |
| 75PD-001 | 75 Ohms | 2-Way | DC-1000 MHz | $\begin{aligned} & +/-.2 \mathrm{~dB} \mathrm{DC}-500 \mathrm{MHz} \\ & +/-.4 \mathrm{~dB} 500-1000 \mathrm{MHz} \end{aligned}$ | $6 \mathrm{~dB}+/-.3 \mathrm{~dB}$ | 1.2:1 DC-500 MHz 1.3:1 $500-1000 \mathrm{MHz}$ | $\begin{aligned} & \text { BNC or TNC } \\ & \text { female } \end{aligned}$ |
| 50PD-015 | 50 Ohms | 2-Way | DC-2550 MHz | $+/-.1 \mathrm{~dB} \mathrm{DC}-500 \mathrm{MHz}$ $+/-.2 \mathrm{~dB} 500-1000 \mathrm{MHz}$ $+/-.3 \mathrm{~dB} \quad 1000-2550 \mathrm{MHz}$ | $6 \mathrm{~dB}+/-.3 \mathrm{~dB}$ <br> $\mathrm{DC}-1000 \mathrm{MHz}$ <br> $6 \mathrm{~dB}+/-.5 \mathrm{~dB}$ <br> $1000-2550 \mathrm{MHz}$ | 1.1:1 DC-500 MHz 1.2:1 $500-1000 \mathrm{MHz}$ 1.3:1 $1000-2550 \mathrm{MHz}$ | $\begin{array}{\|l} \hline N \text { male } \\ N \text { female } \end{array}$ |

## Common Specifications

| Input Power | Peak Power | Operating Temperature |
| :--- | :--- | :---: |
| 1 Watt average @ $25^{\circ} \mathrm{C}$ | 1000 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



This catalog represents only 20\% of our products. For YOUR application, please contact J FW at 1-877-887-4J FW

## Resistive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency Range | Power Division Asymmetry | $\begin{aligned} & \text { Insertion } \\ & \text { Loss } \end{aligned}$ | VSWR <br> Maximum | RF Connectors |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-016 | 50 Ohms | 2-Way | DC-4000 MHz | $\begin{aligned} & +/-.1 \mathrm{~dB} \text { DC-1000 MHz } \\ & +/-.2 \mathrm{~dB} 1000-2000 \mathrm{MHz} \\ & +/-.3 \mathrm{~dB} 2000-4000 \mathrm{MHz} \end{aligned}$ | $6 \mathrm{~dB}+/-.3 \mathrm{~dB}$ $\mathrm{DC}-2000 \mathrm{MHz}$ $6 \mathrm{~dB}+/-.5 \mathrm{~dB}$ $2000-4000 \mathrm{MHz}$ | 1.1:1 DC-1000 MHz 1.2:1 $1000-2000 \mathrm{MHz}$ $1.3: 1 \quad 2000-4000 \mathrm{MHz}$ | SMA female |
| 50PD-017 | 50 Ohms | 3-Way | DC-2000 MHz | $\begin{aligned} & +/-.1 \mathrm{~dB} \text { DC-500 MHz } \\ & +/-.2 \mathrm{~dB} 500-1000 \mathrm{MHz} \\ & +/-.3 \mathrm{~dB} 1000-2000 \mathrm{MHz} \end{aligned}$ | $9.5 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | 1.1:1 DC-500 MHz 1.2:1 $500-2000 \mathrm{MHz}$ | SMA female |
| 50PD-018 | 50 Ohms | 4-Way | DC-2000 MHz | $\begin{aligned} & +/-.2 \mathrm{~dB} \mathrm{DC}-1000 \mathrm{MHz} \\ & +/-.3 \mathrm{~dB} 1000-2000 \mathrm{MHz} \end{aligned}$ | $\begin{array}{\|l\|} \hline 12 \mathrm{~dB}+/-.3 \mathrm{~dB} \\ \mathrm{DC}-1000 \mathrm{MHz} \\ 12 \mathrm{~dB}+/-.5 \mathrm{~dB} \\ 1000-2000 \mathrm{MHz} \end{array}$ | 1.2:1 | SMA female |
| 50PD-028 | 50 Ohms | 5-Way | DC-1500 MHz | $\begin{aligned} & +/-.2 \mathrm{~dB} \text { DC-1000 MHz } \\ & +/-.3 \mathrm{~dB} \mathrm{1000-1500} \mathrm{MHz} \end{aligned}$ | $\begin{array}{\|l\|} \hline 14 \mathrm{~dB}+/-.3 \mathrm{~dB} \\ \mathrm{DC}-1000 \mathrm{MHz} \\ 14 \mathrm{~dB}+/-.5 \mathrm{~dB} \\ 1000-1500 \mathrm{MHz} \end{array}$ | 1.2:1 | SMA female |

## Common Specifications

| Input Power | Peak Power | Operating Temperature |
| :--- | :--- | :---: |
| 2 Watts average @ $25^{\circ} \mathrm{C}$ | 100 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



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## Resistive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency Range | Power Division Asymmetry | $\begin{aligned} & \text { Insertion } \\ & \text { Loss } \end{aligned}$ | VSWR <br> Maximum | RF Connectors |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-133 | 50 Ohms | 2-Way | DC-2000 MHz | +/-. 3 dB | $6 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | 1.2:1 @ 500 MHz $1.3: 1 @ 1000 \mathrm{MHz}$ $1.4: 1 @ 2000 \mathrm{MHz}$ | N female |
| 50PD-134 | 50 Ohms | 3-Way | DC-2000 MHz | +/-. 4 dB | $9.5 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | 1.2:1 @ 500 MHz 1.3:1 @ 1000 MHz 1.4:1 @ 2000 MHz | N female |
| 50PD-135 | 50 Ohms | 4-Way | DC-2000 MHz | +/-. 4 dB | $12 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | $\begin{aligned} & \text { 1.2:1 @ } 500 \mathrm{MHz} \\ & 1.3: 1 @ 1000 \mathrm{MHz} \\ & 1.4: 1 @ 2000 \mathrm{MHz} \end{aligned}$ | N female |
| 50PD-136 | 50 Ohms | 5-Way | DC-2000 MHz | +/-. 4 dB | $14 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | $1.2: 1 @ 500 \mathrm{MHz}$ $1.3: 1 @ 1000 \mathrm{MHz}$ $1.4: 1 @ 2000 \mathrm{MHz}$ | N female |

## Common Specifications

| Input Power | Peak Power | Operating Temperature |
| :--- | :--- | :---: |
| 2 Watts average @ $25^{\circ} \mathrm{C}$ | 100 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



| MODEL | CONFIG. |  | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-133 | 2 | WAY | J1 | - | J2 | - | J3 |  |
| 50PD-134 | 3 | WAY | J1 | - | J2 | J3 | J4 | - |
| 50PD-135 | 4 | WAY | J1 | J2 | J3 | - | J4 | J5 |
| 50PD-136 | 5 | WAY | J1 | J2 | J3 | J4 | J5 | J6 |

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## Resistive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency Range | Power Division Asymmetry | $\begin{aligned} & \text { Insertion } \\ & \text { Loss } \end{aligned}$ | VSWR <br> Maximum | RF Connectors |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 75PD-045 | 75 Ohms | 2-Way | DC-2000 MHz | +/-. 3 dB | $6 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | 1.2:1 @ 500 MHz $1.3: 1 @ 1000 \mathrm{MHz}$ $1.4: 1 @ 2000 \mathrm{MHz}$ | N, BNC female |
| 75PD-046 | 75 Ohms | 3-Way | DC-2000 MHz | +/-. 4 dB | $9.5 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | $\begin{aligned} & \text { 1.2:1 @ } 500 \mathrm{MHz} \\ & 1.3: 1 @ 1000 \mathrm{MHz} \\ & 1.4: 1 @ 2000 \mathrm{MHz} \end{aligned}$ | N, BNC female |
| 75PD-047 | 75 Ohms | 4-Way | DC-2000 MHz | +/-. 4 dB | $12 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | $1.2: 1 @ 500 \mathrm{MHz}$ $1.3: 1 @ 1000 \mathrm{MHz}$ $1.4: 1 @ 2000 \mathrm{MHz}$ | N, BNC female |
| 75PD-048 | 75 Ohms | 5-Way | DC-2000 MHz | +/-. 4 dB | $14 \mathrm{~dB}+/-.5 \mathrm{~dB}$ | $1.2: 1 @ 500 \mathrm{MHz}$ $1.3: 1 @ 1000 \mathrm{MHz}$ $1.4: 1 @ 2000 \mathrm{MHz}$ | N, BNC female |

Common Specifications

| Input Power | Peak Power | Operating Temperature |
| :--- | :--- | :---: |
| 2 Watts average @ $25^{\circ} \mathrm{C}$ | 100 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



| MODEL | CONFIG. | A | B | C | D | E | F |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 75PD-045 | 2 | WAY | J1 | - | J2 | - | J 3 |
|  | - |  |  |  |  |  |  |
| 75PD-046 | 3 | WAY | J 1 | - | J 2 | J 3 | $\mathrm{J4}$ |
|  | - |  |  |  |  |  |  |
| 75PD-047 | 4 | WAY | J 1 | J 2 | J 3 | - | J 4 |
| J 5 |  |  |  |  |  |  |  |
| 75PD-048 | 5 WAY | J 1 | J 2 | J 3 | J 4 | J 5 | J 6 |

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## Resistive Power Dividers/Combiners

| Model | Impedance | Configuration | Fr requency <br> Range | Power Division <br> Asymmetry | Insertion <br> Loss | VSWR <br> Maximum | RF Connectors |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 75 PD-026 | 75 Ohms | 2-Way | DC-1000 MHz | $+/-.3 \mathrm{~dB}$ | $6 \mathrm{~dB}+/ . .5 \mathrm{~dB}$ | $1.1: 1 @ 300 \mathrm{MHz}$ <br> $1.3: 1 @ 1000 \mathrm{MHz}$ | F female |


| Input Power | Peak Power | Operating Temperature |
| :--- | :--- | :---: |
| .5 Watt average @ $25^{\circ} \mathrm{C}$ | 100 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



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## Reactive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency <br> Range | Power Division Asymmetry | $\begin{aligned} & \hline \text { Insertion } \\ & \text { Loss } \end{aligned}$ | VSWR <br> Maximum | RF Connectors |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-056 | 50 Ohms | 2-Way | $800-1000 \mathrm{MHz}$ | +/-. 2 dB | .6 dB maximum <br> (above 3 dB split) | 1.3:1 | N female ( N male available on sum port) |
| 50PD-075 | 50 Ohms | 2-Way | $800-1000 \mathrm{MHz}$ | +/- . 2 dB | .6 dB maximum <br> (above 3 dB split) | 1.3:1 | N female ( N male available on sum port) |
| 50PD-058 | 50 Ohms | 3-Way | $800-1000 \mathrm{MHz}$ | +/-. 2 dB | .7 dB maximum (above 6 dB split) | 1.3:1 | N female |
| 50PD-059 | 50 Ohms | 4-Way | $800-1000 \mathrm{MHz}$ | +/-. 2 dB | $\underset{\text { (above } 6 \mathrm{~dB} \text { split) }}{ }$ | 1.3:1 | N female |


| Model | Isolation (minimum) | Phase Balance | Matched Input Power | Peak Power | Operating Temperature |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-056 | 20 dB | +/-3 ${ }^{\circ}$ | 10 Watts average @ $25^{\circ} \mathrm{C}$ | 1000 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50PD-075 | 20 dB | +/-3 ${ }^{\circ}$ | 40 Watts average @ $25^{\circ} \mathrm{C}$ | 1000 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50PD-058 | 20 dB | +/-3 ${ }^{\circ}$ | $\begin{aligned} & \text { 10 Watts average } \\ & @ 25^{\circ} \mathrm{C} \end{aligned}$ | 1000 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50PD-059 | 20 dB | +/-3 ${ }^{\circ}$ | 10 Watts average @ $25^{\circ} \mathrm{C}$ | 1000 Watts (1 microsecond) | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



## See Next Page For Additional Drawings

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## Reactive Power Dividers/Combiners



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## Reactive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency R ange | Power Division Asymmetry | $\begin{aligned} & \text { Insertion } \\ & \text { Loss } \end{aligned}$ |  | $\begin{aligned} & \text { VSWR } \\ & \text { Maximum } \end{aligned}$ | RF Connectors |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50PD-224 | 50 Ohms | 3-Way | 800-2200 MHz | +/- .5 dB | .6 dB maximum (above 4.8 dB split) |  | 1.5:1 | N or SMA female |
| 50PD-243 | 50 Ohms | 2-way | $800-2200 \mathrm{MHz}$ | +/- . 25 dB | .4 dB (above 3 dB split) |  | 1.3:1 maximum | SMA female |
| 50PD-244 | 50 Ohms | 4-way | $800-2200 \mathrm{MHz}$ | +/- . 4 dB | . 7 dB (above 6 dB split) |  | 1.4:1 maximum | SMA female |
| 50PD-316 | 50 Ohms | 8-way | 800-2200 MHz | +/- . 5 dB | .3 dB nominal @ 800 MHz1.2 dB nominal @ 2200 MHz(above 9 dB split) |  | 1.5:1 maximum | SMA female |
| Model | Isolation (minimum) |  | Phase Balance | Input Power Matched |  | Peak Power |  | rating Temperature |
| 50PD-224 | 20 dB |  | +/-3 ${ }^{\circ}$ | Divider <br> 5 Watts Average @ $25^{\circ} \mathrm{C}$ <br> 100 Watts Peak (1 uSec) <br> Combiner <br> 2.5 Watts Average @ $25^{\circ} \mathrm{C}$ <br> 100 Watts Peak (1 uSec) |  | Divider 100 Watts Peak (1 uSec) Combiner 100 Watts Peak (1 uSec) |  | ${ }^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50PD-243 | 20 dB |  | +/- $3^{0}$ | Divider <br> 5 Watts Average @ $25^{\circ} \mathrm{C}$ <br> 100 Watts Peak (1 uSec) <br> Combiner <br> 2.5 Watts Average @ $25^{\circ} \mathrm{C}$ <br> 100 Watts Peak (1 uSec) |  | Divider 100 Watts Peak (1 uSec) Combiner 100 Watts Peak (1 uSec) |  | $0^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50PD-244 | 20 dB |  | +/- $5^{\circ}$ | Divider <br> 5 Watts Average @ $25^{\circ} \mathrm{C}$ 100 Watts Peak (1 uSec) <br> Combiner <br> 2.5 Watts Average @ $25^{\circ} \mathrm{C}$ <br> 100 Watts Peak (1 uSec) |  | Divider 100 Watts Peak (1 uSec) Combiner 100 Watts Peak (1 uSec) |  | $0^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50PD-316 | 20 dB |  | +/- $10^{\circ}$ | Divider <br> 5 Watts Average @ $25^{\circ} \mathrm{C}$ 100 Watts Peak (1 uSec) <br> Combiner <br> 2.5 Watts Average @ $25^{\circ} \mathrm{C}$ <br> 100 Watts Peak (1 uSec) |  | Divider 100 Watts Peak (1 uSec) Combiner 100 Watts Peak (1 uSec) |  | $40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |

## See Next Page For Additional Drawings



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## Reactive Power Dividers/Combiners

50PD-243


50PD-244
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Specifications

50PD-316


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## Reactive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency <br> Range | Power Division <br> Asymmetry | Insertion <br> Loss | VSWR <br> Maximum | RF Connectors |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 50PD-254 | 50 Ohms | 2-Way | $800-3000 \mathrm{MHz}$ | $+/-.3 \mathrm{~dB}$ | .6 dB (above 3 dB split) | $1.4: 1$ maximum | SMA female |
| 50PD-255 | 50 Ohms | 4-Way | $800-3000 \mathrm{MHz}$ | $+/-.4 \mathrm{~dB}$ | 1 dB (above 6 dB split) | $1.5: 1$ maximum | SMA female |
| 50PD-282 | 50 Ohms | $8-$ Way | $800-3000 \mathrm{MHz}$ | $+/-.4 \mathrm{~dB}$ | 1.2 dB (above $9 \mathrm{~dB} \mathrm{split)}$ | $1.5: 1$ maximum | SMA female |


| Model | Isolation (minimum) | Phase Balance | Input Power Matched | Peak Power | Operating Temperature |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $50 P D-254$ | 20 dB | $+/-5^{\circ}$ | 5 Watts Average @ $25^{\circ} \mathrm{C}$ | 100 Watts Peak <br> $(1$ microsecond $)$ | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 50 PD-255 | 20 dB | $+/-5^{\circ}$ | 5 Watts Average @ $25^{\circ} \mathrm{C}$ | 100 Watts Peak <br> $(1$ microsecond $)$ | $-40^{\circ} \mathrm{C} \mathrm{to}+85^{\circ} \mathrm{C}$ |
| 50PD-282 | 20 dB | $+/-5^{\circ}$ | 5 Watts Average @ $25^{\circ} \mathrm{C}$ | 100 Watts Peak <br> $(1$ microsecond $)$ | $-40^{\circ} \mathrm{C} \mathrm{to} \mathrm{+85}^{\circ} \mathrm{C}$ |

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50PD-254


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## Reactive Power Dividers/Combiners

50PD-255


50PD-282


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## Reactive Power Dividers/Combiners

| Model | Impedance | Configuration | Frequency <br> Range | Power Division <br> Asymmetry | Insertion <br> Loss | VSWR <br> Maximum | RF Connectors |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 50PD-155 | 50 Ohms | 12-Way | $800-2100 \mathrm{MHz}$ | $+/-1 \mathrm{~dB}$ | 2 dB maximum <br> (above 12 dB split) | $1.5: 1$ | N or SMA female |


| Model | Isolation (minimum) | Phase Balance | Input Power Matched | Peak Power | Operating Temperature |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 50 PD-155 | 18 dB | $+/-5^{\circ}$ | 5 Watts average <br> $@ 25^{\circ} \mathrm{C}$ | 100 Watts <br> $(1$ microsecond $)$ | $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



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## Sales Representatives and additional Literature available from J FW

JFW products and services are available on a global basis. Sales Representatives provide support across the United States. A combination of Representatives / Distributors provide worldwide sales and support in the International markets. Please contact JFW customer service or visit our WEB Site for the JFW Representative or Distributor in your area.

## http://www.jfwindustries.com

## J FW European Sales Office

Electron House Hammall Street<br>Epping, Essex<br>CM 16 4LS U.K.<br>Tel: 01992-578231<br>Fax: 01992-576139

This publication offers 144 pages of RF components including attenuators, RF switches, power dividers and test accessories. In addition to this comprehensive component catalog, other product brochures addressing a specific industry or application are available. Please complete the reply card provided, email the completed literature request form available on our WEB Site or call the JFW customer service department for a prompt response. 317-887-1340

## Also available on CD-Rom.

## Literature Available:

Quarterly New Product Brochure
4 pages highlighting the newest innovations designed at JFW Industries.
Distribution Systems and Programmable Assemblies
A short-form catalog describing JFW's test systems capabilities. Features and specifications are detailed on Solid-State and ElectroMechanical Matrix Switches. Programmable assemblies, a major part of all cellular / PCS hand-off simulation test systems are also outlined in detail.

# JFW Industries, Inc. 

## 5134 Commerce Square Drive

Indianapolis, Indiana 46237
1-877-887-4J FW
317-887-1340 / Fax: 317-881-6790
Internet: http://www.jwwindustries.com
Email: sales@jfwindustries.com

