About Us

KorinWell Electronics is a privately held, specialized designer and manufacturer of passive circuit products for wireless communication market.

KorinWell Electronics can supply an extensive line of microwave components with industry leading performance including power splitters, directional couplers, power tappers, hybrid couplers and RF loads. These products are employed as system components in commercial applications such as cellular wireless base stations, in-building wireless signal distribution, Security Wireless Coverage (Bands down to 380 MHz).

Features

- High Voltage Breakdown
- Choice of N or 7-16 mm connectors
- Moisture Sealed for outdoor use
- Rugged & Reliable
- High Power, Low Loss, Low VSWR
- Key Products Available from Stock
- Low Passive Intermodulation
- Bracket for pole or wall mounting available
- 36 Month Warranty on All Components
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Low Power Splitters
120-240MHZ, N-Connectors, 2 Ways

- 50Watt Average Power
- 20dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXSM series of Low Power Splitters is designed to evenly split power cellular signals with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

This device allows use with antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Insertion Loss dB Max</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXSM-2-NFB</td>
<td>120-240</td>
<td>2</td>
<td>0.3</td>
<td>3</td>
<td>625</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice

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Low Power Splitters
300-500MHZ N-Connectors, 2, 3 & 4 Ways

- 50Watt Average Power
- 20dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXSM series of Low Power Splitters is designed to evenly split power cellular signals with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

These devices allow use with antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Insertion Loss Max, dB</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXSM-2-NFC</td>
<td>300~500</td>
<td>2</td>
<td>0.3</td>
<td>3</td>
<td>400</td>
</tr>
<tr>
<td>BXSM-3-NFC</td>
<td>300~500</td>
<td>3</td>
<td>0.5</td>
<td>4.8</td>
<td>720</td>
</tr>
<tr>
<td>BXSM-4-NFC</td>
<td>300~500</td>
<td>4</td>
<td>0.4</td>
<td>6</td>
<td>800</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
Low Power Splitters
800-2500MHZ N-Connectors, 2, 3 & 4 Ways

- Multiple-Band Frequency Range, Cellular, PCS, UMTS
- 50Watt Average Power
- 20dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXSM series of Low Power Splitters is designed to evenly split power cellular signals with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Insertion Loss dB Max</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXSM-2-NF</td>
<td>800-2500</td>
<td>2</td>
<td>0.3</td>
<td>3</td>
<td>240</td>
</tr>
<tr>
<td>BXSM-3-NF</td>
<td>800-2500</td>
<td>3</td>
<td>0.5</td>
<td>4.8</td>
<td>420</td>
</tr>
<tr>
<td>BXSM-4-NF</td>
<td>800-2500</td>
<td>4</td>
<td>0.4</td>
<td>6</td>
<td>600</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
Multi-band Low Loss Reactive Power Splitters
1700-2500MHz N-Connectors, 2, 3 & 4 Ways

- Multiple-Band Frequency Range
- 300Watt Average Power
- Low Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXS series of High Powers Splitters is designed to evenly split power cellular signals with minimal reflections or loss. Its reactive design employs no resistors eliminating their contribution to PIM and the potential of their damage. Designed with only screw joint and an air dielectric, the PIM and loss has been minimized and reliability enhanced. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multiple-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXS-2-NFF</td>
<td>1700~2500</td>
<td>2</td>
<td>3</td>
<td>210</td>
</tr>
<tr>
<td>BXS-3-NFF</td>
<td>1700~2500</td>
<td>3</td>
<td>4.8</td>
<td>245</td>
</tr>
<tr>
<td>BXS-4-NFF</td>
<td>1700~2500</td>
<td>4</td>
<td>6</td>
<td>265</td>
</tr>
</tbody>
</table>

Dimensions, mm

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXS-2-NFF</td>
<td>1700~2500</td>
<td>2</td>
<td>3</td>
<td>210</td>
</tr>
<tr>
<td>BXS-3-NFF</td>
<td>1700~2500</td>
<td>3</td>
<td>4.8</td>
<td>245</td>
</tr>
<tr>
<td>BXS-4-NFF</td>
<td>1700~2500</td>
<td>4</td>
<td>6</td>
<td>265</td>
</tr>
</tbody>
</table>

All Specifications are subject to change without prior notice
Multi-band Low Loss Reactive Power Splitters
800-2500MHz N-Connectors, 2, 3 & 4 Ways

- Multiple-Band Frequency Range,
  Cellular, PCS, UMTS
- 300Watt Average Power
- Low Insertion Loss
- High Reliability
- Environment IP65
- N-female Connectors

The BXS series of High Powers Splitter is designed to evenly split power cellular signals with minimal reflections or loss. Its reactive design employs no resistors eliminating their contribution to PIM and the potential of their damage. Designed with only screw joint and an air dielectric, the PIM and loss has been minimized and reliability enhanced. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multiple-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXS-2-NF</td>
<td>800~2500</td>
<td>2</td>
<td>3</td>
<td>380</td>
</tr>
<tr>
<td>BXS-3-NF</td>
<td>800~2500</td>
<td>3</td>
<td>4.8</td>
<td>440</td>
</tr>
<tr>
<td>BXS-4-NF</td>
<td>800~2500</td>
<td>4</td>
<td>6</td>
<td>470</td>
</tr>
</tbody>
</table>

Dimensions, mm

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Multi-band Low Loss Reactive Power Splitters
800-2500MHz DIN-Connectors, 2, 3 & 4 Ways

- Multiple-Band Frequency Range, Cellular, PCS, UMTS
- 700Watt Average Power
- Low Insertion Loss
- High Reliability
- Environment IP65
- 7-16 DIN Female Connectors

The BXS series of High Powers Splitter is designed to evenly split power cellular signals with minimal reflections or loss. Its reactive design employs no resistors eliminating their contribution to PIM and the potential of their damage. Designed with only screw joint and an air dielectric, the PIM and loss has been minimized and reliability enhanced. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multiple-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXS-2-DF</td>
<td>800–2500</td>
<td>2</td>
<td>3</td>
<td>1040</td>
</tr>
<tr>
<td>BXS-3-DF</td>
<td>800–2500</td>
<td>3</td>
<td>4.8</td>
<td>1240</td>
</tr>
<tr>
<td>BXS-4-DF</td>
<td>800–2500</td>
<td>4</td>
<td>6</td>
<td>1350</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
Multi-band Low Loss Reactive Power Splitters
700-2700MHz DIN-Connectors, 4 Ways

- Super Wideband Band Frequency Range,
  Cellular, PCS, UMTS & WiFi
- 300Watt Average Power
- Low Insertion Loss
- High Reliability
- Environment IP65
- N-female Connectors

This super wideband High Powers Splitter is designed to evenly split power cellular signals with minimal reflections or loss. Its reactive design employs no resistors eliminating their contribution to PIM and the potential of their damage. Designed with only screw joint and an air dielectric, the PIM and loss has been minimized and reliability enhanced. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multiple-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Split</th>
<th>Split Loss, dB</th>
<th>Weight, g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXS-4-NFH</td>
<td>700~2700</td>
<td>4</td>
<td>6</td>
<td>550</td>
</tr>
</tbody>
</table>

Dimensions, mm

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Directional Couplers, Low-Loss Stripline Coupler
120-240MHZ, 6 & 10dB N-Connectors

- 200Watt Average Main Line Power
- 20dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N & Female Connectors

The BXDC series of Directional Couplers is a stripline design for indoor/outdoor applications. Units couple off a defined fraction of signal with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

These devices allow use with antennas and leaky cable systems and wireless base stations.

### Specifications

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Coupling, dB</th>
<th>Mainline Loss dB Max.</th>
<th>Insertion Loss dB Max.</th>
<th>Reflected Power W Max.</th>
<th>Weight g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXDC-6-NFB</td>
<td>120~240</td>
<td>-6±1.0</td>
<td>1.7</td>
<td>0.20</td>
<td>40</td>
<td>430</td>
</tr>
<tr>
<td>BXDC-10-NFB</td>
<td>120~240</td>
<td>-10±1.0</td>
<td>0.8</td>
<td>0.20</td>
<td>100</td>
<td>430</td>
</tr>
</tbody>
</table>

**Dimensions, mm**

![Diagram of BXDC-6-NFB and BXDC-10-NFB]

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Directional Couplers, Low-Loss Stripline Coupler
300-500MHZ, 6-30dB N-Connectors

- 200Watt Average Main Line Power
- 20dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXDC series of Directional Couplers is a stripline design for indoor/outdoor applications. Units couple off a defined fraction of signal with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

These devices allow use with antennas and leaky cable systems and wireless base stations.

VSWR: 1.20:1 Max., All Ports
Isolation: 20dB Min.
Power Rating: 200W, avg.; 1.5KW peak
Impedance: 50 ohm, nominal
Temperature Range, C: -25º to +75º
Environment: IP65, RoHS compliant
Housing: Passivated Aluminum or powder paint
Connectors: N (f), tri-plate
DC capability: DC transmission only between input and output

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Coupling, dB</th>
<th>Mainline Loss dB Max.</th>
<th>Insertion Loss dB Max.</th>
<th>Reflected Power W Max.</th>
<th>Weight g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXDC-6-NFC</td>
<td>300~500</td>
<td>-6 ± 1.0</td>
<td>1.7</td>
<td>0.20</td>
<td>40</td>
<td>440</td>
</tr>
<tr>
<td>BXDC-10-NFC</td>
<td>300~500</td>
<td>-10 ± 1.0</td>
<td>0.8</td>
<td>0.20</td>
<td>100</td>
<td>440</td>
</tr>
<tr>
<td>BXDC-15-NFC</td>
<td>300~500</td>
<td>-15 ± 1.0</td>
<td>0.4</td>
<td>0.20</td>
<td>200</td>
<td>440</td>
</tr>
<tr>
<td>BXDC-20-NFC</td>
<td>300~500</td>
<td>-20 ± 1.0</td>
<td>0.22</td>
<td>0.20</td>
<td>200</td>
<td>440</td>
</tr>
<tr>
<td>BXDC-30-NFC</td>
<td>300~500</td>
<td>-30 ± 1.0</td>
<td>0.20</td>
<td>0.20</td>
<td>200</td>
<td>440</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
Directional Couplers, Low-Loss Stripline Coupler

800-2500MHZ, 5-20dB N & 7/16 Din-Connectors

- Multiple-Band Frequency Range, Cellular, PCS, UMTS
- 200Watt Average Main Line Power
- 20dB Directivity, Min
- Minimal RF Insertion Loss
- High Reliability
- Low Passive Intermodulation (PIM)
- Environment IP65
- N & 7/16 Din Female Connectors

The BXDC series of Directional Couplers is a stripline design for indoor/outdoor applications covering all the wireless services from 800 to 2500MHz. Units couple off a defined fraction of signal with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations.

VSWR: 1.20:1 Max., All Ports
Directivity: 20dB Min.
Power Rating: 200W, avg.; 1.5KW peak
PIM, Passive IM: -140dBc, 2x43dBm
Impedance: 50 ohm, nominal
Temperature Range, C: –25º to +75º
Environment: IP65, RoHS compliant
Housing: Passivated Aluminum or powder paint
Connectors: N (f), 7/16 Din tri-plate
DC capability: DC transmission only between input and output
PIM < -150dBc to special order

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Coupling, dB</th>
<th>Mainline Loss dB Max.</th>
<th>Insertion Loss dB Max.</th>
<th>Reflected Power W Max.</th>
<th>Weight g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXDC-5-NF/DF</td>
<td>800~2500</td>
<td>-5±0.8</td>
<td>2.3</td>
<td>0.25</td>
<td>30</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-6-NF/DF</td>
<td>800~2500</td>
<td>-6±0.8</td>
<td>1.7</td>
<td>0.25</td>
<td>40</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-7-NF/DF</td>
<td>800~2500</td>
<td>-7±0.8</td>
<td>1.5</td>
<td>0.25</td>
<td>50</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-8-NF/DF</td>
<td>800~2500</td>
<td>-8±0.8</td>
<td>1.2</td>
<td>0.25</td>
<td>70</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-10-NF/DF</td>
<td>800~2500</td>
<td>-10±1.0</td>
<td>0.8</td>
<td>0.20</td>
<td>100</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-13-NF/DF</td>
<td>800~2500</td>
<td>-13±1.0</td>
<td>0.5</td>
<td>0.20</td>
<td>200</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-15-NF/DF</td>
<td>800~2500</td>
<td>-15±1.0</td>
<td>0.4</td>
<td>0.20</td>
<td>200</td>
<td>300/750</td>
</tr>
<tr>
<td>BXDC-20-NF/DF</td>
<td>800~2500</td>
<td>-20±1.0</td>
<td>0.22</td>
<td>0.20</td>
<td>200</td>
<td>300/750</td>
</tr>
</tbody>
</table>

Dimensions, mm

BXDC- (5-20)-NF
BXDC- (5-20)-DF

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Directional Couplers, Low-Loss Stripline Coupler

800-2500MHZ, 25-30dB N & 7/16 Din-Connectors

- Multiple-Band Frequency Range, Cellular, PCS, UMTS
- 200Watt Average Main Line Power
- 20dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Low Passive Intermodulation (PIM)
- Environment IP65
- N & 7/16 Din Female Connectors

The BXDC series of Directional Couplers is a stripline design for indoor/outdoor applications covering all the wireless services from 800 to 2500MHz. Units couple off a defined fraction of signal with minimal reflections or loss. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Band, MHz</th>
<th>Coupling, dB</th>
<th>Mainline Loss dB Max.</th>
<th>Insertion Loss dB Max.</th>
<th>Reflected Power W Max.</th>
<th>Weight g</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXDC-25-NF/DF</td>
<td>800~2500</td>
<td>-25 ± 1.0</td>
<td>0.20</td>
<td>0.20</td>
<td>200</td>
<td>350/850</td>
</tr>
<tr>
<td>BXDC-30-NF/DF</td>
<td>800~2500</td>
<td>-30 ± 1.0</td>
<td>0.20</td>
<td>0.20</td>
<td>200</td>
<td>350/850</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
3dB Hybrid Coupler/Combiner
120-240MHz, N Connectors, 30dB Isolation, Minimum

- 200Watt Average Power Rating
- 30dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXH series of 3dB Hybrid Couplers is designed to meet the special requirement of wireless market. It can combine two channels from different service supplier to a single antenna or distribution cable. This requires the termination of one output port in the 50 ohm and results in a 3dB loss in each signal. In situations where two similar feeds are required, for example an in-building application, both outputs may be used, eliminating the need for a termination and the 3dB loss. All of them are conformance to IP65 specification.

This device allows use with antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BXH-3-NFB</td>
<td>120~240</td>
<td>30</td>
<td>0.2</td>
<td>200</td>
<td>700</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice.
3dB Hybrid Coupler/Combiner
300-500MHz, N Connectors, 35dB Isolation, Minimum

- 200Watt Average Power Rating
- 35dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N Female Connectors

The BXH series of 3dB Hybrid Couplers is designed to meet the special requirement of wireless market. It can combine two channels from different service supplier to a single antenna or distribution cable. This requires the termination of one output port in the 50 ohm and results in a 3dB loss in each signal. In situations where two similar feeds are required, for example an in-building application, both outputs may be used, eliminating the need for a termination and the 3dB loss. All of them are conformance to IP65 specification.

This device allows use with antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Range, MHz</th>
<th>Input Isolation, dB Min.</th>
<th>Insertion Loss, dB Max.</th>
<th>Power Rating, W Avg.</th>
<th>Weight, g.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXH-3-NFC</td>
<td>300~500</td>
<td>35</td>
<td>0.2</td>
<td>200</td>
<td>480</td>
</tr>
</tbody>
</table>

Dimensions, mm

<table>
<thead>
<tr>
<th>BXH-3-NFC</th>
</tr>
</thead>
</table>

All Specifications are subject to change without prior notice.
3dB Hybrid Coupler/Combiner
800-960MHz, N & 7/16 Din-Connectors, 35dB Isolation, Minimum

- 200Watt Average Power Rating
- 35dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Low Passive Intermodulation (PIM)
- Environment IP65
- N & 7/16 Din Female Connectors

The BXH series of 3dB Hybrid Couplers is designed to meet the special requirement of wireless market. It can combine two channels from different service supplier to a single antenna or distribution cable. This requires the termination of one output port in the 50 ohm and results in a 3dB loss in each signal. In situations where two similar feeds are required, for example an in-building application, both outputs may be used, eliminating the need for a termination and the 3dB loss. All of them are conformance to IP65 specification.

These devices allow use with antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BXH-3-NFE</td>
<td>800–960</td>
<td>35</td>
<td>0.2</td>
<td>200</td>
<td>230</td>
</tr>
<tr>
<td>BXH-3-DFE</td>
<td>800–960</td>
<td>35</td>
<td>0.2</td>
<td>200</td>
<td>640</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
Multi-Band Hybrid Coupler/Combiner
800-2500MHz, N & 7/16 Din-Connectors, 25dB Isolation, Minimum

- Multiple-Band Frequency Range, Cellular, PCS, UMTS
- 120Watt Average Power Rating
- 25dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Low Passive Intermodulation (PIM)
- Environment IP65
- N & 7/16 Din Female Connectors

The BXH series of 3dB Hybrid Couplers is designed to meet the special requirement of wireless market. It can combine two channels from different service supplier to a single antenna or distribution cable. This requires the termination of one output port in the 50 ohm and results in a 3dB loss in each signal. In situations where two similar feeds are required, for example an in-building application, both outputs may be used, eliminating the need for a termination and the 3dB loss. All of them are conformance to IP65 specification.

The ultra wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BXH-3-NF</td>
<td>800~2500</td>
<td>25</td>
<td>0.25</td>
<td>120</td>
<td>420</td>
</tr>
<tr>
<td>BXH-3-DF</td>
<td>800~2500</td>
<td>25</td>
<td>0.25</td>
<td>120</td>
<td>840</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice
Multi-Band Hybrid Coupler/Combiner
1700-2500MHz, N & 7/16 Din-Connectors, 30dB Isolation, Minimum

- 200Watt Average Power Rating
- 30dB Isolation, Min
- Minimal RF Insertion Loss
- High Reliability
- Environment IP65
- N & 7/16 Din Female Connectors

The BXH series of 3dB Hybrid Couplers is designed to meet the special requirement of wireless market. It can combine two channels from different service supplier to a single antenna or distribution cable. This requires the termination of one output port in the 50 ohm and results in a 3dB loss in each signal. In situations where two similar feeds are required, for example an in-building application, both outputs may be used, eliminating the need for a termination and the 3dB loss. All of them are conformance to IP65 specification.

The wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BXH-3-NFF</td>
<td>1700~2500</td>
<td>30</td>
<td>0.2</td>
<td>200</td>
<td>300</td>
</tr>
<tr>
<td>BXH-3-DFF</td>
<td>1700~2500</td>
<td>30</td>
<td>0.2</td>
<td>200</td>
<td>790</td>
</tr>
</tbody>
</table>

Dimensions, mm

All Specifications are subject to change without prior notice.
Network Combiner
4X4 Hybrid Matrix, Combiner & Splitter, 800-2200MHz, N & 7/16 Din-Connectors

- Connects 4 input to 4 output for shared system
- High Isolation, low VSWR
- High Average power rating
- Low PIM
- High reliability
- N or Din female connectors

The hybrid is a matrix of four 3dB hybrid couplers arranged. Signals applied to any of four input port will be split equally between four output ports. Because of symmetry, multiple signals in the same wireless band can be combined to common feeder cable, as might be required in a system shared in-building distributed antenna system. Unused ports must be terminated externally in 50ohm.

The hybrid provides excellent isolation in the wireless bands and minimize passive intermodulation(PIM). All of them are moisture sealed for outside applications. They are conformance to Ip65 specification.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency, MHz</th>
<th>Coupling</th>
<th>Isolation</th>
<th>Input Power per Input</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>N conn</td>
<td>7/16 Din conn</td>
<td>Range</td>
<td>dB</td>
<td>dB</td>
<td>VSWR</td>
</tr>
<tr>
<td>BXH-4X4-NA</td>
<td>None</td>
<td>800-960</td>
<td>6.1±0.4</td>
<td>&gt;30</td>
<td>&lt;1.10:1</td>
</tr>
<tr>
<td>BXH-4X4-NB</td>
<td>None</td>
<td>1700-2200</td>
<td>6.1±0.4</td>
<td>&gt;30</td>
<td>&lt;1.10:1</td>
</tr>
<tr>
<td>BXH-4X4-NC</td>
<td>BXH-4X4-DC</td>
<td>800-2200</td>
<td>6.2±0.5</td>
<td>&gt;25</td>
<td>&lt;1.20:1</td>
</tr>
</tbody>
</table>

Dimensions, mm

<table>
<thead>
<tr>
<th>Drawing</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXH-4X4-NA</td>
<td>25.4</td>
<td>52</td>
<td>105</td>
<td>115</td>
<td>151</td>
</tr>
<tr>
<td>BXH-4X4-NB</td>
<td>25.4</td>
<td>52</td>
<td>105</td>
<td>115</td>
<td>151</td>
</tr>
<tr>
<td>BXH-4X4-NC</td>
<td>25.4</td>
<td>85</td>
<td>137</td>
<td>147</td>
<td>183</td>
</tr>
<tr>
<td>BXH-4X4-DC</td>
<td>36</td>
<td>85</td>
<td>144</td>
<td>154</td>
<td>196</td>
</tr>
</tbody>
</table>

All Specifications are subject to change without prior notice.
Multi-Band Low Loss Power Tappers
Unequal Power Splitters, 800-2500MHz, N-Connectors

- Multiple-Band Frequency Range, Cellular, PCS, UMTS
- 200Watt Average Power Rating
- Minimal RF Insertion Loss
- High Reliability
- Low Passive Intermodulation (PIM)
- Environment IP65
- N Female Connectors

The BXT series of power tappers unevenly split high power cellular signals from 5dB to 50dB with minimal reflections or loss over the whole 800-2500MHz band. Designed with only screw joint and an air dielectric, the PIM and loss is minimized and reliability enhanced. All of them are conformance to IP65 specification. Its mechanical shape allows to be fixed on the wall or the pole easily.

The ultra wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Range, MHz</th>
<th>Tap Loss, dB</th>
<th>Tap Loss, dB</th>
<th>VSWR Max.</th>
<th>Weight g.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXT-5-NF</td>
<td>800~2500</td>
<td>-5±0.8</td>
<td>-1.65±0.5</td>
<td>1.35:1</td>
<td>370</td>
</tr>
<tr>
<td>BXT-6-NF</td>
<td>800~2500</td>
<td>-6±0.8</td>
<td>-1.26±0.4</td>
<td>1.35:1</td>
<td>370</td>
</tr>
<tr>
<td>BXT-7-NF</td>
<td>800~2500</td>
<td>-7±0.8</td>
<td>-1±0.3</td>
<td>1.35:1</td>
<td>370</td>
</tr>
<tr>
<td>BXT-10-NF</td>
<td>800~2500</td>
<td>-10±1.0</td>
<td>-0.46±0.3</td>
<td>1.35:1</td>
<td>370</td>
</tr>
<tr>
<td>BXT-15-NF</td>
<td>800~2500</td>
<td>-15±1.2</td>
<td>-0.2±0.2</td>
<td>1.35:1</td>
<td>370</td>
</tr>
<tr>
<td>BXT-20-NF</td>
<td>800~2500</td>
<td>-20±1.5</td>
<td>-0.1±0.1</td>
<td>1.15:1</td>
<td>180</td>
</tr>
<tr>
<td>BXT-25-NF</td>
<td>800~2500</td>
<td>-25±1.5</td>
<td>-0.1±0.1</td>
<td>1.15:1</td>
<td>180</td>
</tr>
<tr>
<td>BXT-30-NF</td>
<td>800~2500</td>
<td>-30±1.5</td>
<td>-0.1±0.1</td>
<td>1.15:1</td>
<td>180</td>
</tr>
<tr>
<td>BXT-40-NF</td>
<td>800~2500</td>
<td>-40±1.5</td>
<td>-0.1±0.1</td>
<td>1.15:1</td>
<td>180</td>
</tr>
<tr>
<td>BXT-50-NF</td>
<td>800~2500</td>
<td>-50±1.5</td>
<td>-0.1±0.1</td>
<td>1.15:1</td>
<td>180</td>
</tr>
</tbody>
</table>

**Power Rating:** 200W, avg. 1.5KW peak
**PIM, Passive IM:** -150dBc, 2x43dBm
**Impedance:** 50 ohm, nominal
**Temperature Range, C:** -25° to +75°
**Environment:** IP65, RoHS compliant
**Housing:** Passivated Aluminum or powder paint
**Connectors:** N (f), tri-plate

DC capability: DC transmission only between input and port P1
P2 is coupled capacitive.

### Dimensions, mm

![Dimensions Diagram]

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TEL: +86 25 8485 2620 FAX: +86 25 8485 2630 www.korinwell.com sales@korinwell.com
Coaxial Loads, Low & Medium Power Terminations
DC-6000MHz, 50ohms

- Resistive Film Load
- Finned Termination
- Ideal for Wireless Communication
- Powers 2W to 50W
- VSWR to 1.15:1
- High Reliability

The BXL series terminations are medium power coaxial loads, which operate from DC to 6GHz. Cooling fins minimize temperature rise of the resistive film terminating element, contained within a carefully matched housing.

Standard connectors are N and 7-16 mm DIN, male or female.

<table>
<thead>
<tr>
<th>PN.</th>
<th>Frequency Range, GHz</th>
<th>Connector Type</th>
<th>Connector Gender</th>
<th>Power Rating</th>
<th>VSWR (max)</th>
<th>Weight (g)</th>
<th>Length*, (mm)</th>
<th>Cross Section (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXL-2-NM</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Male</td>
<td>2W</td>
<td>1.15</td>
<td>52</td>
<td>40</td>
<td>18</td>
</tr>
<tr>
<td>BXL-2-NMA</td>
<td>DC~6GHz</td>
<td>N</td>
<td>Male</td>
<td>2W</td>
<td>1.15</td>
<td>52</td>
<td>40</td>
<td>18</td>
</tr>
<tr>
<td>BXL-5-NM</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Male</td>
<td>5W</td>
<td>1.15</td>
<td>55</td>
<td>53</td>
<td>20</td>
</tr>
<tr>
<td>BXL-5-NMA</td>
<td>DC~6GHz</td>
<td>N</td>
<td>Male</td>
<td>5W</td>
<td>1.15</td>
<td>55</td>
<td>53</td>
<td>20</td>
</tr>
<tr>
<td>BXL-10-NM</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Male</td>
<td>10W</td>
<td>1.15</td>
<td>130</td>
<td>60</td>
<td>35</td>
</tr>
<tr>
<td>BXL-10-NF</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Female</td>
<td>10W</td>
<td>1.15</td>
<td>130</td>
<td>60</td>
<td>35</td>
</tr>
<tr>
<td>BXL-10-DM</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Male</td>
<td>10W</td>
<td>1.15</td>
<td>190</td>
<td>67</td>
<td>35</td>
</tr>
<tr>
<td>BXL-10-DF</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Female</td>
<td>10W</td>
<td>1.15</td>
<td>190</td>
<td>65</td>
<td>35</td>
</tr>
<tr>
<td>BXL-20-NM</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Male</td>
<td>20W</td>
<td>1.15</td>
<td>160</td>
<td>78</td>
<td>35</td>
</tr>
<tr>
<td>BXL-20-NF</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Female</td>
<td>20W</td>
<td>1.15</td>
<td>160</td>
<td>78</td>
<td>35</td>
</tr>
<tr>
<td>BXL-20-DM</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Male</td>
<td>20W</td>
<td>1.15</td>
<td>190</td>
<td>87</td>
<td>35</td>
</tr>
<tr>
<td>BXL-20-DF</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Female</td>
<td>20W</td>
<td>1.15</td>
<td>190</td>
<td>86</td>
<td>35</td>
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<tr>
<td>BXL-30-NM</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Male</td>
<td>30W</td>
<td>1.15</td>
<td>270</td>
<td>137</td>
<td>40</td>
</tr>
<tr>
<td>BXL-30-NF</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Female</td>
<td>30W</td>
<td>1.15</td>
<td>270</td>
<td>136</td>
<td>40</td>
</tr>
<tr>
<td>BXL-30-DM</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Male</td>
<td>30W</td>
<td>1.15</td>
<td>330</td>
<td>140</td>
<td>40</td>
</tr>
<tr>
<td>BXL-30-DF</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Female</td>
<td>30W</td>
<td>1.15</td>
<td>330</td>
<td>138</td>
<td>40</td>
</tr>
<tr>
<td>BXL-50-NM</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Male</td>
<td>50W</td>
<td>1.15</td>
<td>390</td>
<td>137</td>
<td>50</td>
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<tr>
<td>BXL-50-NF</td>
<td>DC~3GHz</td>
<td>N</td>
<td>Female</td>
<td>50W</td>
<td>1.15</td>
<td>390</td>
<td>136</td>
<td>50</td>
</tr>
<tr>
<td>BXL-50-DM</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Male</td>
<td>50W</td>
<td>1.15</td>
<td>450</td>
<td>140</td>
<td>50</td>
</tr>
<tr>
<td>BXL-50-DF</td>
<td>DC~3GHz</td>
<td>Din</td>
<td>Female</td>
<td>50W</td>
<td>1.15</td>
<td>450</td>
<td>138</td>
<td>50</td>
</tr>
</tbody>
</table>

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KorinWell Electronics, Inc, 1-111, 52 MUXUYUAN Road, NANJING, 210007 CHINA
TEL: +86 25 8485 2620 FAX: +86 25 8485 2630 www.korinwell.com sales@korinwell.com
TERMS AND CONDITIONS

QUOTATIONS
Unless otherwise specified, all quotations are valid for a period of 60 days subject to change based on availability of materials at order inception.

HOW TO ORDER
When placing an order, please include the model number, product description, frequency range and shipping instructions. If possible, the purchase order should refer to KorinWell quotation number or any reference subjects.

ACCEPTANCE OF ORDER
Orders can be placed either by fax or attached document by e-mail. KorinWell will confirm the receipt of all orders by sending the proforma invoice within 3 working days.

TERMS OF PAYMENT
All prices are F.O.B. Nanjing unless otherwise specified. Full payment in advance by wire transfer is required. KorinWell will confirm the delivery date immediately when the notification of the payment is confirmed by the banker.

SHIPPING
All shipments will normally be made by air freight, KorinWell will choose the most appropriate courier or freight forwarder unless otherwise specified by the customer when placing the order.

CHANGE ORDERS AND CANCELLATIONS
Change in orders regarding price, quantities, delivery or other conditions will be effective after mutual agreement had been affirmed in written document between the customer and KorinWell. Cancellation of any accepted order can only be made after written consent of KorinWell. All cancellation will be dependent upon customer’s agreement to satisfy all costs incurred by KorinWell and its proportionate profit on all work complete. KorinWell will endeavor to stop work promptly upon notification of cancellation.

WARRANTY
KorinWell warrants all products to be free of defects in material or faulty workmanship for a period of 36 months from invoice date. The warranty does not apply to products that have been disassembled, modified, physically or electrically damaged of misuse.

RETURN ON MATERIAL
Material returned for rework or replacement shall be in accordance with the terms and conditions set forth under the warranty. Complete information should be provided with the shipment giving a detailed description of the reason for the products returned, date and number of original purchase order, the products model and serial number and the address to which the material is to be reshipped. KorinWell will issue RMA (Returned on Material Acceptance) to the customer as the confirmation and guideline of returning process. Material returned as defective and found to meet the original specifications will be subject to a normal handling to cover the cost of reinspection and retesting.