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Low Noise Amplifier
64 to 71 GHz

HXI's HLNAV-609 Low Noise Amplifier covers the frequency range from 64 to 71 GHz. MMIC technology is employed for high reliability and repeatability. The amplifier package provides WR-15 waveguide interfaces in an in-line configuration using the standard UG-385/U flange. The amplifier can be used in receivers for communication and radar systems and also for amplification in test equipment. The LNA contains a voltage regulator and bias sequencing circuitry allowing the use of a single bias to power the amplifier.

HLNAV-609 Datasheet

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

Broadband Digital Attenuator
DC to 40 GHz

HXI's HDA040-069 Digital Attenuator covers the range from DC to 40 GHz in 6-bit operation. Attenuation bit values are 0.5 dB (LSB), 1, 2, 4, 8 and 16 dB for total attenuation of 31.5 dB above the attenuator insertion loss. Low bit errors and RMS phase errors are characteristics of this attenuator. The attenuator is useful for communication systems, radars and in test equipment.

HDA040-069 Datasheet

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

WR-12 x3 Passive Multiplier
60 to 90 GHz
Isolators, Circulators, Combiners available with volume discounts

Surface Mount SLE Isolators

A high efficiency x3 passive multiplier series covering WR-12 band (60 - 90 GHz).

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Output Frequency</td>
<td>60 - 90 GHz</td>
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<tr>
<td>Waveguide Designation</td>
<td>WR-12</td>
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<tr>
<td>Multiplication Factor</td>
<td>3</td>
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<tr>
<td>Input Power Range</td>
<td>23 dBm</td>
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<tr>
<td>Output Power Range</td>
<td>7 dBm typ</td>
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<tr>
<td>Efficiency</td>
<td>3% typ</td>
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<tr>
<td>Input Connector</td>
<td>K-type Female</td>
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<tr>
<td>Output Flange</td>
<td>WR-12 UG387/U-M</td>
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<tr>
<td>Bias Required</td>
<td>None</td>
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</tbody>
</table>

HMM3E-026 Datasheet

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

Power Amplifier
64 to 71 GHz

HXIs HHPAV-592 Power Amplifier covers the frequency range from 64 to 71 GHz. MMIC technology is employed for high reliability and repeatability. The amplifier package provides WR-15 waveguide interfaces in an in-line configuration using the standard UG-385/U flange. The amplifier can be used in transmitters for communication and radar systems and also for amplification in test equipment. The power amplifier contains a voltage regulator and bias sequencing circuitry allowing the use of a single bias to power the amplifier.

HHPAV-592 Datasheet

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

REC/HXI Product Lines
DC to 300 GHz

For more information about Renaissance/HXI products contact us at 978-772-7774 or visit www.rec-usa.com / www.hxi.com

REC Parts Catalog
Renaissance has created a new electronic catalog. It is a downloadable, searchable spreadsheet of our parts. Easy tool to sort, search and locate the perfect part for your needs!

Renaissance Catalog