**C-band 5W BUC**

**MODEL No. NJT669/70/75 series**

**< Features >**

* **High Efficiency Output Power**
  - P1dB: +37 dBm min. over temperature

* **Low Power Consumption**
  - Power Consumption: 55 W

* **Small Size & Light Weight**
  - Weight: 2.6 kg

* **LED Indicator**

* **RoHS Compliance**

**< Line-Up >**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>RF Frequency</th>
<th>Local Frequency</th>
<th>IF Frequency</th>
<th>Output Power @ P1dB</th>
<th>IF Connector</th>
<th>Power Supply</th>
<th>LED Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJT669</td>
<td>5.85 to 6.425 GHz</td>
<td>4.90 GHz</td>
<td>950 to 1,525 MHz</td>
<td>5W Linear (+37 dBm min.)</td>
<td>N-type</td>
<td>+24 VDC (+15 to +30 VDC)</td>
<td>Equipped</td>
</tr>
<tr>
<td>NJT669F</td>
<td>standard C-band</td>
<td></td>
<td></td>
<td></td>
<td>F-type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NJT675N</td>
<td>6.365 to 6.725 GHz</td>
<td>5.30 GHz</td>
<td>1,065 to 1,425 MHz</td>
<td></td>
<td>N-type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NJT675F</td>
<td>palapa C-band</td>
<td></td>
<td></td>
<td></td>
<td>F-type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NJT670</td>
<td>6.725 to 7.025 GHz</td>
<td>5.76 GHz</td>
<td>965 to 1,265 MHz</td>
<td></td>
<td>N-type</td>
<td></td>
<td></td>
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<tr>
<td>NJT670F</td>
<td>insat C-band</td>
<td></td>
<td></td>
<td></td>
<td>F-type</td>
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</table>

**< Specifications >**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Interface</td>
<td>Waveguide, CPR-137G (with Groove)</td>
</tr>
<tr>
<td>Input Interface</td>
<td>N-type, female (50 ohm) [Model No.: NJT669/70/75N]</td>
</tr>
<tr>
<td></td>
<td>F-type, female (75 ohm) [Model No.: NJT669F/70F/75F]</td>
</tr>
<tr>
<td>Output Power @ 1 dB G.C.P.</td>
<td>+37 dBm min. over temperature</td>
</tr>
<tr>
<td>Linear Gain</td>
<td>61 dB nom.</td>
</tr>
<tr>
<td>Requirement for External Reference</td>
<td>[Frequency] 10 MHz (sine-wave)</td>
</tr>
<tr>
<td></td>
<td>[Input Power] -5 to +5 dBm @ Input port</td>
</tr>
<tr>
<td></td>
<td>[Phase Noise] -120 dBc/Hz max. @ 100 Hz</td>
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<tr>
<td>L.O. Phase Noise</td>
<td>-60 dBc/Hz max. @ 100 Hz</td>
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<tr>
<td></td>
<td>-70 dBc/Hz max. @ 1 kHz</td>
</tr>
<tr>
<td></td>
<td>-80 dBc/Hz max. @ 10 kHz</td>
</tr>
<tr>
<td></td>
<td>-90 dBc/Hz max. @ 100 kHz</td>
</tr>
<tr>
<td>Receive Band Noise Density</td>
<td>-87 dBm/4kHz max.</td>
</tr>
<tr>
<td>Input V.S.W.R.</td>
<td>2.0 : 1 max.</td>
</tr>
<tr>
<td>Output V.S.W.R.</td>
<td>2.0 : 1 max.</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>+24 VDC (+15 to +30 VDC)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>55 W max.</td>
</tr>
<tr>
<td>Mute</td>
<td>Shut off the HPA in case of LO unlocked</td>
</tr>
<tr>
<td>Temperature Range (ambient)</td>
<td>-40 to +55 C (operating), -40 to +75 C (storage)</td>
</tr>
<tr>
<td>Dimension &amp; Housing</td>
<td>190.6 mm (L) x 160 mm (W) x 59 mm (H)</td>
</tr>
<tr>
<td></td>
<td>[7.50” (L) x 6.30” (W) x 2.32” (H)]</td>
</tr>
<tr>
<td>Weight</td>
<td>2.6 kg max. [5.6 lbs max.]</td>
</tr>
</tbody>
</table>
C-band 5W BUC

MODEL No. NJT5669/70/75 series

< Outline Drawing >

NJT5669/70/75N

- LED Indicator
- No. 10-32UNF 6 mm
- CPR-137G
- 8-32UNF 6 mm
- N-type, female connector
- IF/Ref. (10MHz)

DC Power: +15 to +30 VDC

Unit: mm

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C-band 5W BUC

MODEL No. NJT5669/70/75 series

< Outline Drawing >

NJT5669F/70F/75F

LED Indicator

No. 10-32UNF
depth 6 m in.

F-type, female connector
IF Ref. (10MHz)
DC Power: +15 to +30 VDC

8-No. 10-32UNF
depth 6 m in.

No. 10-32UNF
depth 6 m in.

Unit: mm

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