BUC X-BAND 200W
ACTX-X200W-E1-V1
High Power GaAs Series

The ACTX-X family of BUCs is designed for the most challenging X-band professional & military satellite communication systems (ground, SOTP, SOTM, maritime, etc.). Latest technology is applied to obtain the best linearity, phase noise, gain stability and linear power according to MIL-STD-188-164C. The ACTX-X family is a high reliability solution designed for harsh environmental conditions, with every single production unit fully tested in an environmental chamber and delivered with a complete factory acceptance test report.

TRANSMITTER SPECIFICATIONS

**Input frequency**
950 to 1450 MHz

**Input L-Band VSWR (50 Ω)**
< 1.5:1

**Output frequency**
7.9 to 8.4 GHz

**Output X-band VSWR (50 Ω)**
< 1.3:1

**Spectrum inversion**
None

**Max. input level without damage**
+10 dBm

**P1dB (min)**
53.0 dBm

**Gain**
75 dB min

**Gain flatness**
±1.5 dB over whole BW

**Gain stability (24 hours)**
±0.75 dB over 40 MHz

**Gain variation over temperature**
±1.5 dB (±2.0 dB option HP3)

**Attenuation adjustment range**
20 dB with 0.5 dB steps

**Mute**
> 50 dB

**Noise figure**
≤ 15 dB @ max. gain

**Output noise power density**
< -155 dBm/Hz (7.25-7.75 GHz)

**Spurious @ P1dB**
< -60 dBc

**Harmonics @ P1dB**
< -50 dBc

**Mains related spurious**
< -35 dBc

**SSB added spurious**
< -41 dBc

**TOI @ P1dB - 3 dB**
< -25 dBc (2 tones Δ=5 MHz)

**Sample port**
< -40 dBc ± 2 dB

MECHANICAL SPECIFICATIONS

**Size (LxWxH)**
495 x 265 x 255 mm

**Weight**
19.5 x 10.4 x 10.0 in

**Finish**
52.9 lbs

RAL 9003 (White)

ENVIRONMENTAL SPECIFICATIONS

**Storage temperature**
-40 °C to +85 °C

**Operating temperature**
-20 °C to +60 °C

**Relative humidity**
up to 95%

**Operating altitude**
up to 3000 m

INTERFACES

**TX input (L-Band + Ext. Ref.)**
Type N(F) 50 Ω

**TX output (X-Band)**
WR112 CPRG flange

**Output sample (X-Band)**
Type SMA(F) 50 Ω

**M&C (RS232/485)**
62IN12E12-14S-4-622

**M&C (Ethernet/SNMP)**
62IN12E12-8S-4-622

**AC Power supply**
62IN12E12-3P-4-622

All mating connectors provided

LOCAL OSCILLATOR

**Output phase noise** (IESS-308/309 - 8 dB)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Phase Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz</td>
<td>-70 dBc/HZ</td>
</tr>
<tr>
<td>1 kHz</td>
<td>-78 dBc/HZ</td>
</tr>
<tr>
<td>10 kHz</td>
<td>-88 dBc/HZ</td>
</tr>
<tr>
<td>100 kHz</td>
<td>-110 dBc/HZ</td>
</tr>
</tbody>
</table>

**External reference**
10 MHz

**External reference level**
0 dBm ± 3 dB

OPTIONS

**X-band output**
7.9 to 8.4 GHz

**L-band input**
950 to 1450 MHz

**LO freq.**
6.950 GHz

**Standard freq. option**
ACMB-X200W-E1-V1

**HP2**
Internal reference (Auto external on presence)

**HP3**
Operating temperature -40 °C to +60 °C

**HP4**
Ethernet interface (TCP/IP)

**HP5**
SNMP Agent

POWER SUPPLY

**AC input voltat**
85-265 Vac (47-63 Hz)

**Consumption**
1500 W @ PtdB

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