

BeRex Cross Reference Guide

株式会社ネットウエル

| Product Description | Company | | BeRex | | W.J | | | Sirenza | | |
|---------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------|--|--|
| | Part Number | BT09VG | AH114 | AH118 | EC1089 | SXA-389 | SXB-2089 | | | |
| | Category | HIGH OIP3 | Linearity amp | Linearity amp | Linearity amp | Medium Power | Medium Power | | | |
| | Material | InGap/GaAs HBT | InGap HBT | InGap HBT | GaAs HBT | GaAs HBT | InGap/GaAs HBT | | | |
| | Data sheet version | Finished | Finished | Finished | Finished | Finished | Finished | | | |
| | Package | SOT89 | SOT89 | SOT89 | SOT89 | SOT89 | SOT89 | | | |
| | Matching Circuit | External Matching | External Matching | External Matching | External Matching | External Matching | External Matching | | | |
| Typical Performance | Vcc(V) | 5 | 5 | 5 | 5 | 5 | 5.2 | | | |
| | Icc(mA) | 160 | 150 | 160 | 160 | 105 | 135 | | | |
| | ESD | Class 1B | Class 1A | Class 1A | Class 1A | Class 1B | Class 2 | | | |
| | MSL | MSL1 | MSL3 | MSL3 | MSL3 | ? | MSL1 | | | |
| | Gain | 70MHz | 24.5 | | | | | | | |
| | | 900MHz | 21.5 | 19 | 20.4 | 15.5 | 18.4 | 23 | | |
| | | 1900MHz | 15.5 | 14.5 | 16.5 | 12.2 | 13.6 | 17 | | |
| | | 2140MHz | 14.5 | 14 | 16.3 | 11.5 | 13.5 | 17 | | |
| | | 2450MHz | 13.5 | | | | 12.8 | | | |
| | P1 | 70MHz | | | | | | | | |
| | | 900MHz | 24.5 | 24 | 24.2 | 24 | 25 | 24 | | |
| | | 1900MHz | 25.5 | 23 | 24.7 | 23.5 | 25 | 24.5 | | |
| | | 2140MHz | | 23 | 24.7 | 23.5 | 25 | 24.5 | | |
| | | 2450MHz | 27 | | | | 25 | | | |
| | OIP3(dBm) | 70MHz | | | | | | | | |
| | | 900MHz | 39 | 40 | 40 | 40 | 41 | 41 | | |
| | | 1900MHz | 41 | 41 | 40.5 | 41 | 43 | 43 | | |
| | | 2140MHz | | 40 | 40.5 | 40 | 42 | 43 | | |
| | | 2450MHz | 41.5 | | | | 41 | | | |
| | S11 | 70MHz | | | | | | | | |
| | | 900MHz | -16.0 | -14 | -15 | -14 | -20 | -17 | | |
| | | 1900MHz | -30.0 | -10 | -12 | -15 | -18 | -13 | | |
| | | 2140MHz | | -25 | -15 | -15 | -20 | -18 | | |
| | | 2450MHz | -14.0 | | | | -20 | | | |
| | S22 | 70MHz | | | | | | | | |
| | | 900MHz | -24.0 | -10 | -12 | -10 | | | | |
| | | 1900MHz | -19.0 | -14 | -20 | -10 | | | | |
| 2140MHz | | | -20 | -16 | -10 | | | | | |
| 2450MHz | | -19.0 | | | | | | | | |
| NF(dB) | 70MHz | | | | | | | | | |
| | 900MHz | 3.7 | 5 | 4 | 5.1 | 4.5 | 4.5 | | | |
| | 1900MHz | 4.0 | 5 | 4.3 | 5.9 | 4.8 | 4.7 | | | |
| | 2140MHz | | 6 | 4.8 | 5.4 | 5 | 4.2 | | | |
| | 2450MHz | | | | | 5.7 | | | | |

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| Product Description | Company | BeRex | Prewell | | | ASB | Hittite | |
|---------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| | Part Number | BT09VG | PH430 | PH435 | PH465 | ASW318 | HMC 454 | |
| | Category | HIGH OIP3 | Linearity amp | Linearity amp | Linearity amp | Linearity amp | Medium Power | |
| | Material | InGap/GaAs HBT | InGap HBT | InGap HBT | InGap HBT | | InGap HBT | |
| | Data sheet version | Finished | Finished | Finished | Finished | Finished | Finished | |
| | Package | SOT89 | SOT89 | SOT89 | SOT89 | SOT89 | SOT89 | |
| | Matching Circuit | External Matching | External Matching | External Matching | External Matching | External Matching | External Matching | |
| Typical Performance | Vcc(V) | 5 | 5 | 5 | 5 | 8 | 5 | |
| | Icc(mA) | 160 | 155 | 152 | 148 | 120 | 150 | |
| | ESD | Class 1B | Class 1C | Class 1C | Class 1C | ? | ? | |
| | MSL | MSL1 | MSL3 | MSL3 | MSL3 | ? | MSL1 | |
| | Gain | 70MHz | 24.5 | | | | | |
| | | 900MHz | 21.5 | | | 19 | 16.5 | 17.8 |
| | | 1900MHz | 15.5 | 17.5 | 16.8 | 15 | 15 | 12.5 |
| | | 2140MHz | 14.5 | 16.8 | | 13.3 | | 12.5 |
| | | 2450MHz | 13.5 | | | | | |
| | P1 | 70MHz | | | | | | |
| | | 900MHz | 24.5 | | | 25.5 | 26 | 24.5 |
| | | 1900MHz | 25.5 | 24.5 | 25.5 | 25.1 | 26 | 27 |
| | | 2140MHz | | 25 | | 25.2 | | |
| | | 2450MHz | 27 | | | | | 27.5 |
| | OIP3(dBm) | 70MHz | | | | | | |
| | | 900MHz | 39 | | | 41.5 | 47 | 40 |
| | | 1900MHz | 41 | 42 | 42 | 41.5 | 45.5 | 41 |
| | | 2140MHz | | 42 | | 41 | | 42 |
| | | 2450MHz | 41.5 | | | | | |
| | S11 | 70MHz | | | | | | |
| | | 900MHz | -16.0 | | | -13.0 | -20.0 | -9.0 |
| | | 1900MHz | -30.0 | -13 | -17 | -12 | -15 | -7.0 |
| | | 2140MHz | | -18.0 | | -11.0 | | -12 |
| | | 2450MHz | -14.0 | | | | | |
| | S22 | 70MHz | | | | | | |
| | | 900MHz | -24.0 | | | -11.0 | -18.0 | -13 |
| | | 1900MHz | -19.0 | -15 | -17 | -11 | -11 | -21 |
| 2140MHz | | | -18.0 | | -14.0 | | -19 | |
| 2450MHz | | -19.0 | | | | | | |
| NF(dB) | 70MHz | | | | | | | |
| | 900MHz | 3.7 | | | 3.8 | 2.3 | 8 | |
| | 1900MHz | 4.0 | 3.1 | 3.1 | 3.2 | 3.3 | 6.5 | |
| | 2140MHz | | 3.1 | | 3.3 | | 5.2 | |
| | 2450MHz | | | | | | | |