

BeRex Cross Reference Guide

株式会社ネットウエル

| Product Description | Company | BeRex | WJ | Sirenza | Hittite | | | ASB | |
|---------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| | Part Number | BL051 | AM1 | SPF-5043Z | HMC617 | HMC618 | HMC 667 | ASL19W | |
| | Category | Wide band LNA | Linear Driver | LNA | LNA | LNA | LNA | LNA | |
| | Material | GaAs/ EPHEMT | GaAs MESFET | GaAs / PHEMT | GaAs / PHEMT | GaAs / PHEMT | GaAs PHEMT | GaAs PHEMT | |
| | Data sheet version | Finished | Finished | Finished | Finished | Finished | Finished | Finished | |
| | Package | SOT89 | SOT89 | SOT89 | QFN 3x3 | QFN 3x3 | DFN 2x2 | SOT89 | |
| | Matching Circuit | External Matching | External Matching | Internal Matching | Internal Matching | Internal Matching | External Matching | External Matching | |
| Typical Performance | Vcc(V) | 3.5 to 5 | 4.5 | 3 to 5 | 3 to 5 | 3 to 5 | 3 to 5 | 5 | |
| | Icc(mA) | 33 to 48 | 78 | 25 to 46 | 30 to 88 | 47 to 117 | 24 to 59 | 73 | |
| | ESD | Class 1A | Class 1C | Class 1A | ? | ? | ? | ? | |
| | MSL | MSL1 | MSL3 | MSL1 | MSL1 | MSL1 | MSL1 | | |
| | Gain | 70MHz | | | | | | | |
| | | 900MHz | 19 | 14 | 18.2 | 16 | | | 20 |
| | | 1900MHz | 14 | 12.8 | 13.1 | | 19 | | 13.5 |
| | | 2140MHz | 13 | 12.2 | 11.9 | | 17 | | 13 |
| | | 2450MHz | 12 | 11.5 | 10.8 | | | 19 | 12 |
| | P1 | 70MHz | | | | | | | |
| | | 900MHz | 21 | 18 | 19.9 | 21 | | | 22 |
| | | 1900MHz | 21 | 18 | 21 | | 20 | | 22 |
| | | 2140MHz | 21.5 | 18 | 21.4 | | 20 | | 22 |
| | | 2450MHz | 22 | 18 | 21.7 | | | 16.5 | 22 |
| | OIP3(dBm) | 70MHz | | | | | | | |
| | | 900MHz | 34.5 | 39 | 33 | 37 | | | 35.5 |
| | | 1900MHz | 36 | 39 | 35 | | 35 | | 37 |
| | | 2140MHz | 36 | 38 | 35.5 | | 36 | | 37 |
| | | 2450MHz | 35.5 | 37 | 36.5 | | | 29.5 | 37.5 |
| | S11 | 70MHz | | | | | | | |
| | | 900MHz | -19.5 | -10 | -15.5 | 22.0 | | | -20.0 |
| | | 1900MHz | -22.0 | -9 | -17.5 | | 18.0 | | -18.0 |
| | | 2140MHz | -26.0 | -11.5 | -17 | | 19.5 | | -18.0 |
| | | 2450MHz | -23.5 | -11.8 | -16 | | | 12 | -18.0 |
| | S22 | 70MHz | | | | | | | |
| | | 900MHz | -26.0 | -27 | -20 | 12.0 | | | -18 |
| | | 1900MHz | -21.0 | -22 | -17 | | 12.5 | | -15 |
| | | 2140MHz | -17.5 | -10.8 | -17 | | 9.5 | | |
| 2450MHz | | -17.0 | -12 | -16.5 | | | 14 | -17 | |
| NF(dB) | 70MHz | | | | | | | | |
| | 900MHz | 0.70 | 2.4 | 0.74 | 0.6 | | | 0.9 | |
| | 1900MHz | 0.88 | 2.6 | 0.78 | | 0.75 | | 0.9 | |
| | 2140MHz | 0.91 | 2.7 | 0.84 | | 0.85 | | 0.9 | |
| | 2450MHz | 0.94 | 2.8 | 0.96 | | | 0.75 | 1.0 | |