

## Broadband Low Noise Amplifiers

### FEATURES:

- ❖ Coverage From 0.01 to 110.0 GHz (Octave/Multi-octave)
- ❖ Noise Figure As Low As 1.5 dB
- ❖ Wide Dynamic Range
- ❖ Compact/Rugged Thin-Film Construction
- ❖ Economically Priced



### DESCRIPTION:

### CBL Series

Cernex's CBL series are general purpose amplifiers suitable for a wide range of applications in commercial and military systems where low to high gain block amplifiers are required. CBL series are compact, rugged, and may be designed into commercial and military systems where stringent environments are encountered.

### SPECIFICATIONS:

| Model Number | Frequency Range (GHz) | Gain (dB) Min. | SS Flatness (+/-dB) Max. | NF (dB) Max. | P1dB (dBm) Min. | VSWR In/Out Max. | Current @ 12-15 VDC (mA) Typ. | Case Type |
|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|------------------|-------------------------------|-----------|
| CBLU1011313  | 0.1-1                 | 13             | 1.00                     | 1.30         | 10              | 2.5:1            | 85                            | HN4       |
| CBLU1023612  | 0.1-2                 | 36             | 1.00                     | 1.20         | 10              | 2:1              | 150                           | HN4       |
| CBLU1033213  | 0.1-3                 | 32             | 1.00                     | 1.30         | 10              | 2:1              | 150                           | HN4       |
| CBLU1042615  | 0.1-4                 | 26             | 1.25                     | 1.50         | 10              | 2:1              | 150                           | HN4       |
| CBLU1063020  | 0.1-6                 | 30             | 1.50                     | 2.00         | 10              | 2:1              | 175                           | HN3       |
| CBLU1083025  | 0.1-8                 | 30             | 1.50                     | 2.50         | 10              | 2:1              | 175                           | HN3       |
| CBLU1102828  | 0.1-10                | 28             | 1.50                     | 2.80         | 10              | 2:1              | 175                           | HN4 ▲     |
| CBLU1122630  | 0.1-12                | 26             | 1.50                     | 3.00         | 10              | 2:1              | 175                           | HN4 ▲     |
| CBLU1142232  | 0.1-14                | 22             | 2.00                     | 3.20         | 10              | 2.5:1            | 200                           | HN4 ▲     |
| CBLU1162134  | 0.1-16                | 21             | 2.00                     | 3.40         | 10              | 2.5:1            | 200                           | HN4 ▲     |
| CBLU1181835  | 0.1-18                | 18             | 2.00                     | 3.50         | 10              | 2.5:1            | 200                           | HN3 ▲     |
| CBLU1183540  | 0.1-18                | 35             | 3.00                     | 4.00 **      | 10              | 2.5:1            | 200                           | HN5 ▲     |
| CBLU1201838  | 0.1-20                | 18             | 2.50                     | 3.80         | 10              | 2.5:1            | 175                           | HN3 ▲     |
| CBLU1221645  | 0.1-22                | 16             | 2.50                     | 4.50         | 10              | 2.5:1            | 175                           | MN3       |
| CBLU1241645  | 0.1-24                | 16             | 2.50                     | 4.50         | 10              | 2.5:1            | 175                           | MN3       |
| CBLU1261645  | 0.1-26.5              | 16             | 2.50                     | 4.50         | 10              | 2.5:1            | 175                           | MN3       |
| CBLU1281645  | 0.1-28                | 16             | 2.50                     | 4.50         | 10              | 2.7:1            | 175                           | MK3       |
| CBLU1301545  | 0.1-30                | 15             | 2.50                     | 4.50         | 7               | 3.0:1            | 175                           | MK3       |
| CBLU1401450  | 0.1-40                | 14             | 4.00                     | 5.00         | 6               | 3.5:1            | 275                           | MK3       |



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|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|------------------|-------------------------------|-----------|
| CBLU1402545  | 0.1-40                | 25             | 3.00                     | 4.5Δ         | 8               | 2:1              | 150                           | MK3       |
| CBLU1502355  | 0.1-50                | 23             | 4.00                     | 5.5Δ         | 8               | 2.25:1           | 150                           | MV3       |
| CBLU1601865  | 0.1-60                | 18             | 5.00                     | 6.5          | 5               | 2.5:1            | 150                           | MV3       |
| CBLU1U23611  | 0.12-0.25             | 36             | 1.00                     | 1.10         | 10              | 2:1              | 120                           | HN3       |
| CBLU2053610  | 0.25-5                | 36             | 1.00                     | 1.00         | 10              | 2:1              | 180                           | HN4       |
| CBLU3012510  | 0.3-1.4               | 25             | 1.00                     | 1.00         | 10              | 2:1              | 100                           | HN3       |
| CBLU5012408  | 0.5-1                 | 24             | 1.00                     | 0.80         | 10              | 2:1              | 100                           | HN3       |
| CBLU5023610  | 0.5-2                 | 36             | 1.00                     | 1.00         | 10              | 2:1              | 130                           | HN4       |
| CBLU5021125  | 0.5-2                 | 11             | 0.75                     | 2.50         | 10              | 2:1              | 100                           | HN2 ▲     |
| CBLU5022325  | 0.5-2                 | 23             | 1.00                     | 2.50         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBLU5023230  | 0.5-2                 | 32             | 1.25                     | 3.00         | 15              | 2:1              | 200                           | HN4 ▲     |
| CBLU5023830  | 0.5-2                 | 38             | 1.25                     | 3.00         | 15              | 2:1              | 240                           | HN4 ▲     |
| CBLU5022125  | 0.5-2                 | 21             | 1.00                     | 2.50         | 18              | 2:1              | 200                           | HN3 ▲     |
| CBLU5023425  | 0.5-2                 | 34             | 1.00                     | 2.50         | 18              | 2:1              | 250                           | HN4 ▲     |
| CBLU5022435  | 0.5-2                 | 24             | 1.00                     | 3.50         | 20              | 2:1              | 240                           | HN3 ▲     |
| CBLU5023135  | 0.5-2                 | 31             | 1.00                     | 3.50         | 20              | 2:1              | 260                           | HN3 ▲     |
| CBLU5024035  | 0.5-2                 | 40             | 1.25                     | 3.50         | 20              | 2:1              | 320                           | HN5 ▲     |
| CBLU5042030  | 0.5-4                 | 20             | 1.00                     | 3.00         | 12              | 2:1              | 120                           | HN3 ▲     |
| CBLU5042630  | 0.5-4                 | 26             | 1.25                     | 3.00         | 12              | 2:1              | 180                           | HN3 ▲     |
| CBLU5043030  | 0.5-4                 | 30             | 1.50                     | 3.00         | 12              | 2:1              | 240                           | HN3 ▲     |
| CBLU5042240  | 0.5-4                 | 22             | 1.00                     | 4.00         | 15              | 2:1              | 180                           | HN3 ▲     |
| CBLU5043140  | 0.5-4                 | 31             | 1.50                     | 4.00         | 18              | 2:1              | 240                           | HN4 ▲     |
| CBLU5044040  | 0.5-4                 | 40             | 1.5                      | 4.00         | 18              | 2:1              | 300                           | HN4 ▲     |
| CBLU5062645  | 0.5-6                 | 26             | 1.50                     | 4.50         | 12              | 2:1              | 225                           | HN3 ▲     |
| CBLU5064045  | 0.5-6                 | 40             | 2.00                     | 4.50         | 12              | 2:1              | 330                           | HN4 ▲     |
| CBLU5062745  | 0.5-6                 | 27             | 1.50                     | 4.50         | 15              | 2:1              | 225                           | HN3 ▲     |
| CBLU5064145  | 0.5-6                 | 41             | 2.00                     | 4.50         | 15              | 2:1              | 330                           | HN4 ▲     |
| CBLU5082550  | 0.5-8                 | 25             | 1.75                     | 5.00         | 12              | 2.5:1            | 225                           | HN3 ▲     |
| CBLU5083750  | 0.5-8                 | 37             | 2.00                     | 5.00         | 12              | 2.5:1            | 330                           | HN4 ▲     |
| CBLU5082450  | 0.5-8                 | 24             | 1.75                     | 5.00         | 15              | 2.5:1            | 225                           | HN3 ▲     |
| CBLU5083950  | 0.5-8                 | 39             | 2.00                     | 5.00         | 15              | 2.5:1            | 330                           | HN4 ▲     |
| CBLU5122050  | 0.5-12                | 20             | 2.00                     | 5.00         | 12              | 2.5:1            | 225                           | HN3 ▲     |
| CBLU5123050  | 0.5-12                | 30             | 2.25                     | 5.00         | 12              | 2.5:1            | 330                           | HN4 ▲     |
| CBLU5124050  | 0.5-12                | 40             | 2.50                     | 5.00         | 12              | 2.5:1            | 450                           | HN4 ▲     |
| CBLU5122150  | 0.5-12                | 21             | 2.00                     | 5.00         | 15              | 2.5:1            | 225                           | HN3 ▲     |
| CBLU5123150  | 0.5-12                | 31             | 2.25                     | 5.00         | 15              | 2.5:1            | 330                           | HN4 ▲     |
| CBLU5124150  | 0.5-12                | 41             | 2.25                     | 5.00         | 15              | 2.5:1            | 450                           | HN4 ▲     |
| CBLU5181550  | 0.5-18                | 15             | 2.75                     | 5.00         | 10              | 2.5:1            | 150                           | HN3 ▲     |
| CBLU5182060  | 0.5-18                | 20             | 3.25                     | 6.00         | 12              | 2.5:1            | 310                           | HN3 ▲     |
| CBLU5182560  | 0.5-18                | 25             | 3.75                     | 6.00         | 12              | 2.5:1            | 370                           | HN4 ▲     |
| CBLU5183060  | 0.5-18                | 30             | 3.75                     | 6.00         | 12              | 2.5:1            | 430                           | HN4 ▲     |



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| CBLU5183530  | 0.5-18                | 35             | 2.75                     | 3.00         | 10              | 2.5:1            | 225                           | HN5 ▲     |
| CBLU5184540  | 0.5-18                | 45             | 2.50                     | 4.00         | 8               | 2.5:1            | 250                           | HN7 ▲     |
| CBL01023407  | 1-2                   | 34             | 1.00                     | 0.70         | 10              | 2.0:1            | 130                           | HN4       |
| CBL01023805  | 1-2                   | 38             | 1.00                     | 0.50         | 10              | 2:1              | 150                           | HN4 ▲     |
| CBL01022616  | 1-2                   | 26             | 1.00                     | 1.60         | 10              | 2.0:1            | 100                           | HN3 ▲     |
| CBL01022420  | 1-2                   | 24             | 1.00                     | 2.00         | 12              | 2.0:1            | 150                           | HN3 ▲     |
| CBL01023225  | 1-2                   | 32             | 1.00                     | 2.50         | 12              | 2.0:1            | 180                           | HN4 ▲     |
| CBL01024030  | 1-2                   | 42             | 1.25                     | 3.00         | 12              | 2.0:1            | 240                           | HN5 ▲     |
| CBL01022825  | 1-2                   | 28             | 1.00                     | 2.50         | 18              | 2.0:1            | 250                           | HN4 ▲     |
| CBL01024130  | 1-2                   | 41             | 1.25                     | 3.00         | 18              | 2.0:1            | 350                           | HN5 ▲     |
| CBL01032811  | 1-3                   | 28             | 1.50                     | 1.1          | 8               | 2.5:1            | 150                           | HN4       |
| CBL01042608  | 1-4                   | 26             | 1.75                     | 1.3          | 8               | 2.5:1            | 175                           | HN4       |
| CBL01401550  | 1-40                  | 15             | 3.00                     | 5.00         | 8               | 2.2:1            | 200                           | MK3       |
| CBL01401570  | 1-40                  | 15             | 3.00                     | 7.00         | 8               | 2.25:1           | 200                           | MK3       |
| CBL01402570  | 1-40                  | 25             | 5.00                     | 7.00         | 8               | 2.25:1           | 325                           | Mk3       |
| CBL01403060  | 1-40                  | 30             | 5.00                     | 6.00         | 10              | 2.25:1           | 350                           | MK4       |
| CBL01403070  | 1-40                  | 30             | 6.00                     | 7.00         | 8               | 2.25:1           | 400                           | MK4       |
| CBL01022310  | 1.2-2.4               | 23             | 1.00                     | 1.0          | 8               | 2.0:1            | 100                           | HN2       |
| CBL02042618  | 2-4                   | 26             | 1.00                     | 1.80         | 10              | 2:1              | 100                           | HN4 ▲     |
| CBL02042810  | 2-4                   | 28             | 1.00                     | 1.0          | 10              | 2:1              | 125                           | HN3       |
| CBL02042420  | 2-4                   | 24             | 1.00                     | 2.00         | 12              | 2:1              | 180                           | HN4 ▲     |
| CBL02043020  | 2-4                   | 30             | 1.25                     | 2.00         | 12              | 2:1              | 240                           | HN3 ▲     |
| CBL02043206  | 2-4                   | 32             | 1.00                     | 0.60         | 10              | 2:1              | 125                           | HN4 ▲     |
| CBL02044020  | 2-4                   | 40             | 1.25                     | 2.00         | 15              | 2:1              | 300                           | HN4 ▲     |
| CBL02042325  | 2-4                   | 23             | 1.00                     | 2.50         | 18              | 2:1              | 240                           | HN4 ▲     |
| CBL02042925  | 2-4                   | 29             | 1.25                     | 2.50         | 18              | 2:1              | 300                           | HN4 ▲     |
| CBL02043925  | 2-4                   | 39             | 1.50                     | 2.50         | 18              | 2:1              | 360                           | HN5 ▲     |
| CBL02062616  | 2-6                   | 26             | 1.00                     | 1.60         | 10              | 2.0:1            | 125                           | HN3       |
| CBL02062430  | 2-6                   | 24             | 1.00                     | 3.00         | 12              | 2:1              | 160                           | HN3 ▲     |
| CBL02063030  | 2-6                   | 30             | 1.50                     | 3.00         | 12              | 2:1              | 220                           | HN4 ▲     |
| CBL02064030  | 2-6                   | 40             | 2.00                     | 3.00         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL02062335  | 2-6                   | 23             | 1.00                     | 3.50         | 18              | 2:1              | 200                           | HN3 ▲     |
| CBL02062935  | 2-6                   | 29             | 1.50                     | 3.50         | 18              | 2:1              | 250                           | HN4 ▲     |
| CBL02063935  | 2-6                   | 39             | 2.00                     | 3.50         | 18              | 2:1              | 360                           | HN5 ▲     |
| CBL02083020  | 2-8                   | 30             | 1.50                     | 2.00         | 10              | 2:1              | 175                           | HN3       |
| CBL02081425  | 2-8                   | 14             | 1.50                     | 2.50         | 10              | 2:1              | 70                            | HN2 ▲     |
| CBL02082235  | 2-8                   | 22             | 1.00                     | 3.50         | 12              | 2:1              | 180                           | HN3 ▲     |
| CBL02083035  | 2-8                   | 30             | 1.50                     | 3.50         | 12              | 2:1              | 240                           | HN4 ▲     |
| CBL02084035  | 2-8                   | 40             | 2.00                     | 3.50         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL02082425  | 2-8                   | 24             | 1.50                     | 2.50         | 15              | 2:1              | 150                           | HN3 ▲     |
| CBL02083025  | 2-8                   | 30             | 1.50                     | 2.50         | 15              | 2:1              | 200                           | HN4 ▲     |



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| CBL02084225  | 2-8                   | 42             | 1.50                     | 2.50         | 15              | 2:1              | 300                           | HN4 ▲     |
| CBL02082525  | 2-8                   | 25             | 1/50                     | 2.50         | 18              | 2:1              | 175                           | HN3 ▲     |
| CBL02082140  | 2-8                   | 21             | 1.00                     | 4.00         | 18              | 2:1              | 250                           | HN3 ▲     |
| CBL02082940  | 2-8                   | 29             | 2.00                     | 4.00         | 18              | 2:1              | 300                           | HN4 ▲     |
| CBL02083940  | 2-8                   | 39             | 2.00                     | 4.00         | 18              | 2:1              | 360                           | HN5 ▲     |
| CBL02083230  | 2-8                   | 32             | 1.50                     | 3.00         | 20              | 2:1              | 300                           | HN4 ▲     |
| CBL02084230  | 2-8                   | 42             | 1.50                     | 3.00         | 20              | 2:1              | 350                           | HN4 ▲     |
| CBL02084530  | 2-8                   | 45             | 1.50                     | 3.00         | 20              | 2:1              | 400                           | HN5 ▲     |
| CBL02102045  | 2-10                  | 20             | 2.00                     | 4.50         | 12              | 2:1              | 200                           | HN3 ▲     |
| CBL02103045  | 2-10                  | 30             | 2.50                     | 4.50         | 12              | 2:1              | 300                           | HN4 ▲     |
| CBL02102047  | 2-10                  | 20             | 2.00                     | 4.75         | 18              | 2:1              | 250                           | HN3 ▲     |
| CBL02103047  | 2-10                  | 30             | 2.50                     | 4.75         | 18              | 2:1              | 350                           | HN4 ▲     |
| CBL02121950  | 2-12                  | 19             | 2.00                     | 5.00         | 12              | 2:1              | 200                           | HN3 ▲     |
| CBL02122750  | 2-12                  | 27             | 2.00                     | 5.00         | 12              | 2:1              | 300                           | HN4 ▲     |
| CBL02123650  | 2-12                  | 36             | 2.50                     | 5.00         | 12              | 2:1              | 375                           | HN5 ▲     |
| CBL02121855  | 2-12                  | 18             | 2.50                     | 5.50         | 18              | 2:1              | 250                           | HN3 ▲     |
| CBL02122655  | 2-12                  | 26             | 2.50                     | 5.50         | 18              | 2:1              | 350                           | HN4 ▲     |
| CBL02123555  | 2-12                  | 35             | 2.50                     | 5.50         | 18              | 2:1              | 400                           | HN5 ▲     |
| CBL02182035  | 2-18                  | 20             | 2.50                     | 3.50         | 10              | 2.5:1            | 100                           | HN3       |
| CBL02180745  | 2-18                  | 7              | 1.50                     | 4.50         | 8               | 2.2:1            | 65                            | HN2 ▲     |
| CBL02181445  | 2-18                  | 14             | 1.50                     | 4.50         | 9               | 2.2:1            | 100                           | HN3 ▲     |
| CBL02182235  | 2-18                  | 22             | 2.00                     | 3.50         | 8               | 2.2:1            | 160                           | HN3 ▲     |
| CBL02183235  | 2-18                  | 32             | 2.00                     | 3.50         | 8               | 2.2:1            | 200                           | HN4 ▲     |
| CBL02183145  | 2-18                  | 31             | 2.00                     | 4.50         | 15              | 2.2:1            | 325                           | HN4 ▲     |
| CBL02182045  | 2-18                  | 20             | 2.00                     | 4.50         | 18              | 2.2:1            | 350                           | HN3 ▲     |
| CBL02181860  | 2-18                  | 18             | 2.50                     | 6.00         | 12              | 2.3:1            | 200                           | HN3 ▲     |
| CBL02182460  | 2-18                  | 24             | 3.00                     | 6.00         | 12              | 2.3:1            | 300                           | HN3 ▲     |
| CBL02183060  | 2-18                  | 30             | 3.50                     | 6.00         | 12              | 2.3:1            | 350                           | HN4 ▲     |
| CBL02183560  | 2-18                  | 35             | 3.75                     | 6.00         | 12              | 2.3:1            | 400                           | HN4 ▲     |
| CBL02181760  | 2-18                  | 17             | 2.75                     | 6.00         | 15              | 2.3:1            | 275                           | HN3 ▲     |
| CBL02182360  | 2-18                  | 23             | 3.25                     | 6.00         | 15              | 2.3:1            | 325                           | HN3 ▲     |
| CBL02182960  | 2-18                  | 29             | 3.75                     | 6.00         | 15              | 2.3:1            | 375                           | HN4 ▲     |
| CBL02202070  | 2-20                  | 20             | 2.50                     | 7.00         | 12              | 2:1              | 275                           | HN3 ▲     |
| CBL02202570  | 2-20                  | 25             | 2.75                     | 7.00         | 12              | 2:1              | 350                           | HN4 ▲     |
| CBL02203070  | 2-20                  | 30             | 3.00                     | 7.00         | 12              | 2:1              | 425                           | HN4 ▲     |
| CBL02203570  | 2-20                  | 35             | 3.25                     | 7.00         | 12              | 2:1              | 500                           | HN6 ▲     |
| CBL02261590  | 2-26.5                | 15             | 2.50                     | 9.00         | 12              | 2:1              | 275                           | HN3 ▲     |
| CBL02262290  | 2-26.5                | 22             | 3.00                     | 9.00         | 12              | 2:1              | 400                           | HN3 ▲     |
| CBL02262260  | 2-26.5                | 22             | 3.00                     | 6.00         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL02262960  | 2-26.5                | 29             | 3.50                     | 6.00         | 12              | 2:1              | 500                           | HN4 ▲     |
| CBL02401570  | 2-40                  | 15             | 4.0                      | 7.00         | 8               | 2.5:1            | 200                           | MK3       |



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| CBL02402070  | 2-40                  | 20             | 5.0                      | 7.00         | 8               | 2.5:1            | 300                           | MK3       |
| CBL02403050  | 2-40                  | 30             | 5.0                      | 5.00         | 10              | 2.25:1           | 350                           | MK4       |
| CBL02403060  | 2-40                  | 30             | 5.0                      | 6.00         | 10              | 2.25:1           | 350                           | MK4       |
| CBL02502011  | 2-50                  | 20             | 3.50                     | 11.00        | 10              | 2.5:1            | 300                           | MK3       |
| CBL02053215  | 2.6-5.2               | 32             | 1.25                     | 1.5          | 10              | 2:1              | 150                           | HN3       |
| CBL03142040  | 3.7-14.5              | 20             | 2.00                     | 4.00         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL03143040  | 3.7-14.5              | 30             | 2.50                     | 4.00         | 12              | 2:1              | 225                           | HN4 ▲     |
| CBL03144040  | 3.7-14.5              | 40             | 3.00                     | 4.00         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL03141940  | 3.7-14.5              | 19             | 2.00                     | 4.00         | 18              | 2:1              | 150                           | HN3 ▲     |
| CBL03141940  | 3.7-14.5              | 29             | 2.50                     | 4.00         | 18              | 2:1              | 225                           | HN4 ▲     |
| CBL03143940  | 3.7-14.5              | 39             | 3.00                     | 4.00         | 18              | 2:1              | 300                           | HN5 ▲     |
| CBL04083412  | 4-8                   | 34             | 1.00                     | 1.2          | 10              | 2:1              | 175                           | HN3       |
| CBL04082115  | 4-8                   | 21             | 1.50                     | 1.50         | 8               | 2.2:1            | 110                           | HN3 ▲     |
| CBL04082915  | 4-8                   | 29             | 1.50                     | 1.50         | 15              | 2.2:1            | 180                           | HN3 ▲     |
| CBL04083025  | 4-8                   | 30             | 1.50                     | 2.50         | 18              | 2:1              | 230                           | HN4 ▲     |
| CBL04083708  | 4-8                   | 37             | 1.00                     | 0.80         | 10              | 2:1              | 125                           | HN4 ▲     |
| CBL04082430  | 4-8                   | 24             | 1.00                     | 3.00         | 12              | 2:1              | 180                           | HN3 ▲     |
| CBL04083230  | 4-8                   | 32             | 1.50                     | 3.00         | 12              | 2:1              | 240                           | HN4 ▲     |
| CBL04084030  | 4-8                   | 40             | 1.50                     | 3.00         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL04082330  | 4-8                   | 23             | 1.00                     | 3.00         | 18              | 2:1              | 250                           | HN3 ▲     |
| CBL04083130  | 4-8                   | 31             | 1.50                     | 3.00         | 18              | 2:1              | 300                           | HN4 ▲     |
| CBL04083930  | 4-8                   | 39             | 1.50                     | 3.00         | 18              | 2:1              | 350                           | HN5 ▲     |
| CBL04101025  | 4-10.5                | 10             | 1.50                     | 2.50         | 8               | 2:1              | 75                            | HN2 ▲     |
| CBL04101925  | 4-10.5                | 19             | 1.50                     | 2.50         | 10              | 2:1              | 140                           | HN3 ▲     |
| CBL04102825  | 4-10.5                | 28             | 1.50                     | 2.50         | 13              | 2:1              | 200                           | HN4 ▲     |
| CBL04104325  | 4-10.5                | 43             | 1.50                     | 2.50         | 15              | 2:1              | 300                           | HN5 ▲     |
| CBL04102340  | 4-10.5                | 23             | 1.25                     | 4.00         | 12              | 2:1              | 250                           | HN3 ▲     |
| CBL04103440  | 4-10.5                | 34             | 1.50                     | 4.00         | 12              | 2:1              | 320                           | HN4 ▲     |
| CBL04102240  | 4-10.5                | 22             | 1.25                     | 4.00         | 18              | 2:1              | 300                           | HN3 ▲     |
| CBL04103340  | 4-10.5                | 33             | 1.50                     | 4.00         | 18              | 2:1              | 420                           | HN4 ▲     |
| CBL04122225  | 4-12                  | 22             | 1.00                     | 2.50         | 10              | 2:1              | 175                           | HN3       |
| CBL04122240  | 4-12                  | 22             | 1.50                     | 4.00         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL04123340  | 4-12                  | 33             | 2.00                     | 4.00         | 12              | 2:1              | 225                           | HN4 ▲     |
| CBL04124440  | 4-12                  | 44             | 2.50                     | 4.00         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL04122140  | 4-12                  | 21             | 1.50                     | 4.00         | 18              | 2:1              | 150                           | HN3 ▲     |
| CBL04123240  | 4-12                  | 32             | 2.00                     | 4.00         | 18              | 2:1              | 225                           | HN4 ▲     |
| CBL04124340  | 4-12                  | 43             | 2.50                     | 4.00         | 18              | 2:1              | 300                           | HN5 ▲     |
| CBL04182050  | 4-18                  | 20             | 3.50                     | 5.00         | 10              | 2.5:1            | 185                           | HN4 ▲     |
| CBL05102718  | 5-10                  | 27             | 1.25                     | 1.8          | 10              | 2:1              | 150                           | HN3       |
| CBL05131025  | 5-13                  | 10             | 1.50                     | 2.50         | 10              | 2:1              | 75                            | HN2 ▲     |
| CBL05132025  | 5-13                  | 20             | 1.50                     | 2.50         | 15              | 2:1              | 140                           | HN3 ▲     |



## Broadband Low Noise Amplifiers

| Model Number | Frequency Range (GHz) | Gain (dB) Min. | SS Flatness (+/-dB) Max. | NF (dB) Max. | P1dB (dBm) Min. | VSWR In/Out Max.      | Current @ 12-15 VDC (mA) Typ. | Case Type |
|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|-----------------------|-------------------------------|-----------|
| CBL05133225  | 5-13                  | 32             | 1.50                     | 2.50         | 15              | 2:1                   | 180                           | HN4 ▲     |
| CBL05132135  | 5-13                  | 21             | 1.50                     | 3.50         | 17              | 2:1                   | 140                           | HN3 ▲     |
| CBL05133135  | 5-13                  | 31             | 1.50                     | 3.50         | 19              | 2:1                   | 290                           | HN4 ▲     |
| CBL05134335  | 5-13                  | 43             | 1.50                     | 3.50         | 19              | 2:1                   | 320                           | HN5 ▲     |
| CBL05135235  | 5-13                  | 52             | 1.50                     | 3.50         | 19              | 2:1                   | 380                           | HN6 ▲     |
| CBL05152040  | 5-15                  | 20             | 1.50                     | 4.00         | 12              | 2:1                   | 150                           | HN3 ▲     |
| CBL05153040  | 5-15                  | 30             | 2.00                     | 4.00         | 12              | 2:1                   | 225                           | HN4 ▲     |
| CBL05154040  | 5-15                  | 40             | 2.50                     | 4.00         | 12              | 2:1                   | 300                           | HN5 ▲     |
| CBL05151940  | 5-15                  | 19             | 1.50                     | 4.00         | 18              | 2:1                   | 150                           | HN3▲      |
| CBL05152940  | 5-15                  | 29             | 2.00                     | 4.00         | 18              | 2:1                   | 225                           | HN4 ▲     |
| CBL05153940  | 5-15                  | 39             | 2.50                     | 4.00         | 18              | 2:1                   | 300                           | HN5 ▲     |
| CBL06113012  | 6-11                  | 30             | 1.00                     | 1.2          | 5               | (In)2.3:1/(Out) 2.0:1 | 90                            | MSA3      |
| CBL06122219  | 6-12                  | 22             | 1.00                     | 1.9          | 10              | 2:1                   | 175                           | HN3       |
| CBL06121025  | 6-12                  | 10             | 1.00                     | 2.50         | 8               | 2:1                   | 75                            | HN2 ▲     |
| CBL06122125  | 6-12                  | 21             | 1.50                     | 2.50         | 10              | 2:1                   | 150                           | HN3 ▲     |
| CBL06122925  | 6-12                  | 29             | 1.50                     | 2.50         | 10              | 2:1                   | 175                           | HN4 ▲     |
| CBL06124025  | 6-12                  | 40             | 1.50                     | 2.50         | 10              | 2:1                   | 225                           | HN5 ▲     |
| CBL06125025  | 6-12                  | 50             | 1.50                     | 2.50         | 10              | 2:1                   | 275                           | HN6 ▲     |
| CBL06122035  | 6-12                  | 20             | 1.50                     | 3.5          | 12              | 2:1                   | 150                           | HN3 ▲     |
| CBL06122835  | 6-12                  | 28             | 1.25                     | 3.5          | 12              | 2:1                   | 200                           | HN4 ▲     |
| CBL06123835  | 6-12                  | 38             | 1.50                     | 3.5          | 12              | 2:1                   | 270                           | HN5 ▲     |
| CBL06121935  | 6-12                  | 19             | 1.00                     | 3.5          | 18              | 2:1                   | 200                           | HN3 ▲     |
| CBL06122735  | 6-12                  | 27             | 1.25                     | 3.5          | 18              | 2:1                   | 270                           | HN4 ▲     |
| CBL06123735  | 6-12                  | 37             | 1.50                     | 3.5          | 18              | 2:1                   | 340                           | HN5 ▲     |
| CBL06182030  | 6-18                  | 20             | 2.00                     | 3.00         | 10              | 2.5:1                 | 175                           | HN3       |
| CBL06181023  | 6-18                  | 10             | 1.50                     | 2.30         | 8               | 2:1                   | 80                            | HN3 ▲     |
| CBL06182025  | 6-18                  | 20             | 1.50                     | 2.50         | 8               | 2:1                   | 150                           | HN3 ▲     |
| CBL06182525  | 6-18                  | 25             | 1.50                     | 2.50         | 13              | 2:1                   | 190                           | HN4 ▲     |
| CBL06182825  | 6-18                  | 28             | 1.50                     | 2.50         | 15              | 2:1                   | 200                           | HN4 ▲     |
| CBL06183225  | 6-18                  | 32             | 1.50                     | 2.50         | 15              | 2:1                   | 275                           | HN5 ▲     |
| CBL06183825  | 6-18                  | 38             | 1.50                     | 2.50         | 15              | 2:1                   | 350                           | HN5 ▲     |
| CBL06184425  | 6-18                  | 44             | 1.50                     | 2.50         | 15              | 2:1                   | 420                           | HN6 ▲     |
| CBL06183525  | 6-18                  | 35             | 1.50                     | 2.50         | 17              | 2:1                   | 375                           | HN5 ▲     |
| CBL06182527  | 6-18                  | 25             | 1.50                     | 2.70         | 8               | 2:1                   | 190                           | HN4 ▲     |
| CBL06183730  | 6-18                  | 37             | 1.50                     | 3.00         | 17              | 2:1                   | 295                           | HN5 ▲     |
| CBL06181430  | 6-18                  | 14             | 1.50                     | 3.00         | 13              | 2:1                   | 140                           | HN3 ▲     |
| CBL06182030  | 6-18                  | 20             | 1.50                     | 3.00         | 13              | 2:1                   | 200                           | HN3 ▲     |
| CBL06182630  | 6-18                  | 26             | 1.50                     | 3.00         | 15              | 2:1                   | 260                           | HN4 ▲     |
| CBL06183230  | 6-18                  | 32             | 1.50                     | 3.00         | 15              | 2:1                   | 320                           | HN5 ▲     |
| CBL06183830  | 6-18                  | 38             | 1.50                     | 3.00         | 15              | 2:1                   | 440                           | HN5 ▲     |
| CBL06184430  | 6-18                  | 44             | 1.50                     | 3.00         | 15              | 2:1                   | 500                           | HN6 ▲     |



## Broadband Low Noise Amplifiers

| Model Number | Frequency Range (GHz) | Gain (dB) Min. | SS Flatness (+/-dB) Max. | NF (dB) Max. | P1dB (dBm) Min. | VSWR In/Out Max. | Current @ 12-15 VDC (mA) Typ. | Case Type |
|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|------------------|-------------------------------|-----------|
| CBL06185030  | 6-18                  | 50             | 1.50                     | 3.00         | 15              | 2:1              | 350                           | HN6 ▲     |
| CBL06181840  | 6-18                  | 18             | 1.00                     | 4.00         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL06182740  | 6-18                  | 27             | 2.00                     | 4.00         | 12              | 2:1              | 220                           | HN4 ▲     |
| CBL06183640  | 6-18                  | 36             | 2.50                     | 4.00         | 12              | 2:1              | 250                           | HN5 ▲     |
| CBL06184040  | 6-18                  | 40             | 3.00                     | 4.00         | 12              | 2:1              | 320                           | HN5 ▲     |
| CBL06181740  | 6-18                  | 17             | 1.50                     | 4.00         | 18              | 2:1              | 220                           | HN3 ▲     |
| CBL06182640  | 6-18                  | 26             | 2.00                     | 4.00         | 18              | 2:1              | 290                           | HN4 ▲     |
| CBL06183540  | 6-18                  | 35             | 2.50                     | 4.00         | 18              | 2:1              | 330                           | HN5 ▲     |
| CBL06183940  | 6-18                  | 39             | 3.00                     | 4.00         | 18              | 2:1              | 400                           | HN5 ▲     |
| CBL06201650  | 6-20                  | 16             | 2:00                     | 5.00         | 12              | 2:1              | 200                           | HN3 ▲     |
| CBL06202350  | 6-20                  | 23             | 2.00                     | 5.00         | 12              | 2:1              | 250                           | HN4 ▲     |
| CBL06203150  | 6-20                  | 31             | 3.00                     | 5.00         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL06201550  | 6-20                  | 15             | 2.00                     | 5.00         | 17              | 2:1              | 235                           | HN3 ▲     |
| CBL06202250  | 6-20                  | 22             | 2.50                     | 5.00         | 17              | 2:1              | 170                           | HN4 ▲     |
| CBL06203050  | 6-20                  | 30             | 3.00                     | 5.00         | 17              | 2:1              | 170                           | HN5 ▲     |
| CBL07121025  | 7-12.4                | 10             | 1.00                     | 2.50         | 9               | 2:1              | 75                            | HN2 ▲     |
| CBL07121825  | 7-12.4                | 18             | 1.50                     | 2.50         | 15              | 2:1              | 125                           | HN3 ▲     |
| CBL07122825  | 7-12.4                | 28             | 1.50                     | 2.50         | 15              | 2:1              | 190                           | HN4 ▲     |
| CBL07123825  | 7-12.4                | 38             | 1.50                     | 2.50         | 15              | 2:1              | 315                           | HN5 ▲     |
| CBL07124725  | 7-12.4                | 47             | 1.50                     | 2.50         | 15              | 2:1              | 380                           | HN6 ▲     |
| CBL07122230  | 7-12.4                | 22             | 1.50                     | 3.00         | 20              | 2:1              | 260                           | HN3 ▲     |
| CBL07123230  | 7-12.4                | 32             | 1.50                     | 3.00         | 20              | 2:1              | 310                           | HN4 ▲     |
| CBL07123630  | 7-12.4                | 36             | 1.50                     | 3.00         | 20              | 2:1              | 350                           | HN5 ▲     |
| CBL08123015  | 8-12                  | 30             | 1.25                     | 1.5          | 10              | 2:1              | 150                           | HN3       |
| CBL08122225  | 8-12                  | 22             | 1.00                     | 2.5          | 10              | 2:1              | 100                           | HN3 ▲     |
| CBL08122035  | 8-12                  | 20             | 1.00                     | 3.5          | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL08122835  | 8-12                  | 28             | 1.25                     | 3.5          | 12              | 2:1              | 200                           | HN4 ▲     |
| CBL08123210  | 8-12                  | 32             | 1.00                     | 1.00         | 10              | 2:1              | 125                           | HN4 ▲     |
| CBL08123635  | 8-12                  | 36             | 1.50                     | 3.5          | 12              | 2:1              | 250                           | HN5 ▲     |
| CBL08124235  | 8-12                  | 42             | 1.75                     | 3.5          | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL08121935  | 8-12                  | 19             | 1.00                     | 3.5          | 18              | 2:1              | 200                           | HN3 ▲     |
| CBL08122735  | 8-12                  | 27             | 1.25                     | 3.5          | 18              | 2:1              | 250                           | HN4 ▲     |
| CBL08123535  | 8-12                  | 35             | 1.50                     | 3.5          | 18              | 2:1              | 320                           | HN5 ▲     |
| CBL08124135  | 8-12                  | 41             | 1.75                     | 3.50         | 18              | 2:1              | 390                           | HN5 ▲     |
| CBL08182028  | 8-18                  | 20             | 1.50                     | 2.80         | 10              | 2.0:1            | 150                           | HN3       |
| CBL08181940  | 8-18                  | 19             | 1.50                     | 4.00         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL08182840  | 8-18                  | 28             | 1.75                     | 4.00         | 12              | 2:1              | 200                           | HN4 ▲     |
| CBL08183622  | 8-18                  | 36             | 2.00                     | 2.20         | 10              | 2:1              | 200                           | HN5 ▲     |
| CBL08183740  | 8-18                  | 37             | 2.00                     | 4.00         | 12              | 2:1              | 250                           | HN5 ▲     |
| CBL08184140  | 8-18                  | 41             | 2.25                     | 4.00         | 12              | 2:1              | 330                           | HN5 ▲     |
| CBL08181840  | 8-18                  | 18             | 1.50                     | 4.00         | 18              | 2:1              | 220                           | HN3 ▲     |



## Broadband Low Noise Amplifiers

| Model Number | Frequency Range (GHz) | Gain (dB) Min. | SS Flatness (+/-dB) Max. | NF (dB) Max. | P1dB (dBm) Min. | VSWR In/Out Max. | Current @ 12-15 VDC (mA) Typ. | Case Type |
|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|------------------|-------------------------------|-----------|
| CBL08182740  | 8-18                  | 27             | 1.75                     | 4.00         | 18              | 2:1              | 290                           | HN4 ▲     |
| CBL08183640  | 8-18                  | 36             | 2.00                     | 4.00         | 18              | 2:1              | 330                           | HN5 ▲     |
| CBL08184040  | 8-18                  | 40             | 2.25                     | 4.00         | 18              | 2:1              | 400                           | HN5 ▲     |
| CBL10201745  | 10-20                 | 17             | 1.25                     | 4.50         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL10202245  | 10-20                 | 22             | 1.50                     | 4.50         | 12              | 2:1              | 200                           | HN4 ▲     |
| CBL10203545  | 10-20                 | 35             | 2.00                     | 4.50         | 12              | 2:1              | 250                           | HN5 ▲     |
| CBL10203945  | 10-20                 | 39             | 2.00                     | 4.50         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL10201645  | 10-20                 | 16             | 1.50                     | 4.50         | 18              | 2:1              | 260                           | HN3 ▲     |
| CBL10202545  | 10-20                 | 25             | 2.00                     | 4.50         | 18              | 2:1              | 340                           | HN4 ▲     |
| CBL10203445  | 10-20                 | 34             | 2.00                     | 4.50         | 18              | 2:1              | 420                           | HN5 ▲     |
| CBL10203845  | 10-20                 | 38             | 2.25                     | 4.50         | 18              | 2:1              | 500                           | HN5 ▲     |
| CBL12182420  | 12-18                 | 24             | 1.50                     | 2.0          | 10              | 2:1              | 120                           | HN3       |
| CBL12181528  | 12-18                 | 15             | 1.00                     | 2.80         | 13              | 2:1              | 140                           | HN3 ▲     |
| CBL12182028  | 12-18                 | 20             | 1.00                     | 2.80         | 13              | 2:1              | 190                           | HN3 ▲     |
| CBL12182628  | 12-18                 | 26             | 1.00                     | 2.80         | 15              | 2:1              | 260                           | HN4 ▲     |
| CBL12183228  | 12-18                 | 32             | 1.00                     | 2.80         | 15              | 2:1              | 310                           | HN5 ▲     |
| CBL12183618  | 12-18                 | 36             | 1.50                     | 1.80         | 10              | 2:1              | 150                           | HN5 ▲     |
| CBL12183828  | 12-18                 | 38             | 1.00                     | 2.80         | 15              | 2:1              | 360                           | HN5 ▲     |
| CBL12184428  | 12-18                 | 44             | 1.00                     | 2.80         | 15              | 2:1              | 410                           | HN6 ▲     |
| CBL12181635  | 12-18                 | 16             | 1.00                     | 3.50         | 10              | 2:1              | 100                           | HN3 ▲     |
| CBL12182040  | 12-18                 | 20             | 1.00                     | 4.00         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL12182940  | 12-18                 | 29             | 1.25                     | 4.00         | 12              | 2:1              | 200                           | HN4 ▲     |
| CBL12183840  | 12-18                 | 38             | 1.50                     | 4.00         | 12              | 2:1              | 250                           | HN4 ▲     |
| CBL12184240  | 12-18                 | 42             | 1.75                     | 4.00         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL12181940  | 12-18                 | 19             | 1.25                     | 4.00         | 18              | 2:1              | 250                           | HN3 ▲     |
| CBL12182840  | 12-18                 | 28             | 1.50                     | 4.00         | 18              | 2:1              | 300                           | HN4 ▲     |
| CBL12183740  | 12-18                 | 37             | 1.75                     | 4.00         | 18              | 2:1              | 350                           | HN4 ▲     |
| CBL12201845  | 12-20                 | 18             | 1.25                     | 4.50         | 12              | 2:1              | 150                           | HN3 ▲     |
| CBL12202445  | 12-20                 | 24             | 1.50                     | 4.50         | 12              | 2:1              | 200                           | HN4 ▲     |
| CBL12203045  | 12-20                 | 30             | 1.75                     | 4.50         | 12              | 2:1              | 250                           | HN4 ▲     |
| CBL12203645  | 12-20                 | 36             | 2.00                     | 4.50         | 12              | 2:1              | 300                           | HN5 ▲     |
| CBL12202345  | 12-20                 | 23             | 1.50                     | 4.50         | 18              | 2:1              | 260                           | HN4 ▲     |
| CBL12202945  | 12-20                 | 29             | 1.75                     | 4.50         | 18              | 2:1              | 340                           | HN4 ▲     |
| CBL12203545  | 12-20                 | 35             | 2.00                     | 4.50         | 18              | 2:1              | 420                           | HN5 ▲     |
| CBL12204045  | 12-20                 | 40             | 2.25                     | 4.50         | 18              | 2:1              | 500                           | HN5 ▲     |
| CBL18263030  | 18-26.5               | 30             | 2.50                     | 3.00         | 10              | 2.2:1            | 250                           | HN4 ▲     |
| CBL18262235  | 18-26.5               | 22             | 1.25                     | 3.50         | 10              | 2:1              | 200                           | HN4 ▲     |
| CBL18262735  | 18-26.5               | 27             | 1.25                     | 3.50         | 10              | 2:1              | 300                           | HN5 ▲     |
| CBL18261850  | 18-26.5               | 18             | 1.00                     | 5.00         | 10              | 2:1              | 200                           | HN4 ▲     |
| CBL18262850  | 18-26.5               | 28             | 1.25                     | 5.00         | 12              | 2:1              | 260                           | HN5 ▲     |
| CBL18263550  | 18-26.5               | 35             | 1.50                     | 5.00         | 12              | 2:1              | 310                           | HN6 ▲     |



## Broadband Low Noise Amplifiers

| Model Number | Frequency Range (GHz) | Gain (dB) Min. | SS Flatness (+/-dB) Max. | NF (dB) Max. | P1dB (dBm) Min. | VSWR In/Out Max. | Current @ 12-15 VDC (mA) Typ. | Case Type |
|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|------------------|-------------------------------|-----------|
| CBL18264150  | 18-26.5               | 41             | 2.00                     | 5.00         | 12              | 2:1              | 390                           | HN7 ▲     |
| CBL18263150  | 18-26.5               | 31             | 1.75                     | 5.00         | 15              | 2:1              | 500                           | HN5 ▲     |
| CBL18263750  | 18-26.5               | 37             | 2.00                     | 5.00         | 15              | 2:1              | 550                           | HN6 ▲     |
| CBL18261855  | 18-26.5               | 18             | 1.50                     | 5.50         | 12              | 2:1              | 200                           | HN3 ▲     |
| CBL18262455  | 18-26.5               | 24             | 2.50                     | 5.50         | 12              | 2:1              | 250                           | HN3 ▲     |
| CBL18263035  | 18-26.5               | 30             | 2.50                     | 3.50         | 10              | 2:1              | 250                           | HN3 ▲     |
| CBL18263055  | 18-26.5               | 30             | 2.50                     | 5.50         | 12              | 2:1              | 300                           | HN3▲      |
| CBL18263555  | 18-26.5               | 35             | 2.50                     | 5.50         | 12              | 2:1              | 350                           | HN5 ▲     |
| CBL18261755  | 18-26.5               | 17             | 1.50                     | 5.50         | 15              | 2:1              | 300                           | HN4 ▲     |
| CBL18262355  | 18-26.5               | 23             | 2.00                     | 5.50         | 15              | 2:1              | 350                           | HN4 ▲     |
| CBL18262355  | 18-26.5               | 50             | 3.00                     | 3.50         | 10              | 2.5:1            | 450                           | HN5 ▲     |
| CBL18402055  | 18-40                 | 20             | 2.00                     | 5.50         | 6               | 2.5:1            | 350                           | MK3       |
| CBL18401375  | 18-40                 | 13             | 2.00                     | 7.50         | 10              | 2.5:1            | 225                           | MK3       |
| CBL18401775  | 18-40                 | 17             | 2.00                     | 7.50         | 10              | 2.5:1            | 300                           | MK3       |
| CBL18401775  | 18-40                 | 17             | 2.50                     | 7.50         | 13              | 2.5:1            | 450                           | MK3       |
| CBL18402075  | 18-40                 | 20             | 2.50                     | 7.50         | 10              | 2.5:1            | 375                           | MK3       |
| CBL18402475  | 18-40                 | 24             | 3.00                     | 7.50         | 10              | 2.5:1            | 450                           | MK3       |
| CBL18402875  | 18-40                 | 28             | 3.50                     | 7.50         | 13              | 2.5:1            | 600                           | MK4       |
| CBL18403475  | 18-40                 | 34             | 3.50                     | 7.50         | 13              | 2.5:1            | 675                           | MK3       |
| CBL18401875  | 18-40                 | 18             | 2.50                     | 7.50         | 18              | 2.5:1            | 850                           | MK3       |
| CBL18402575  | 18-40                 | 25             | 2.50                     | 7.50         | 18              | 2.5:1            | 950                           | MK3       |
| CBL20401575  | 20-40                 | 15             | 2.00                     | 7.5          | 10              | 2.5:1            | 280                           | MK3       |
| CBL20402075  | 20-40                 | 20             | 2.25                     | 7.5          | 10              | 2.5:1            | 350                           | MK3       |
| CBL20402575  | 20-40                 | 25             | 2.50                     | 7.5          | 10              | 2.5:1            | 410                           | MK3       |
| CBL20403075  | 20-40                 | 30             | 2.75                     | 7.5          | 10              | 2.5:1            | 470                           | MK4       |
| CBL20403575  | 20-40                 | 35             | 3.00                     | 7.5          | 10              | 2.5:1            | 530                           | MK4       |
| CBL26403035  | 26.5-40               | 30             | 2.50                     | 3.50         | 10              | 2.5:1            | 250                           | MK3       |
| CBL26402050  | 26.5-40               | 20             | 2.00                     | 5.0          | 10              | 2.5:1            | 250                           | MK3       |
| CBL26402550  | 26.5-40               | 25             | 2.00                     | 5.0          | 10              | 2.5:1            | 325                           | MK3       |
| CBL26403050  | 26.5-40               | 30             | 2.00                     | 5.0          | 10              | 2.5:1            | 400                           | HN3       |
| CBL26401565  | 26.5-40               | 15             | 1.50                     | 6.5          | 7               | 2.5:1            | 210                           | MK3       |
| CBL26402065  | 26.5-40               | 20             | 2.00                     | 6.5          | 7               | 2.5:1            | 250                           | MK3       |
| CBL26402465  | 26.5-40               | 24             | 2.25                     | 6.5          | 7               | 2.5:1            | 300                           | MK3       |
| CBL26405040  | 26.5-40               | 50             | 3.50                     | 4.0          | 10              | 2.5:1            | 375                           | MK5       |
| CBL26402965  | 26.5-40               | 29             | 2.50                     | 6.5          | 12              | 2.5:1            | 350                           | MK4       |
| CBL26403565  | 26.5-40               | 35             | 3.00                     | 6.5          | 12              | 2.5:1            | 400                           | MK4       |
| CBL26402265  | 26.5-40               | 22             | 2.00                     | 6.5          | 15              | 2.5:1            | 350                           | MK3       |
| CBL26403065  | 26.5-40               | 30             | 2.50                     | 6.5          | 15              | 2.5:1            | 400                           | MK4       |
| CBL57651555  | 57-65                 | 15             | 2.50                     | 5.5          | 9               | 2:1              | 70                            | MV2       |
| CBL57653055  | 57-65                 | 30             | 2.50                     | 5.5          | 9               | 2:1              | 110                           | MV2       |
| CBL85971870  | 85-97                 | 18             | 2.0                      | 7.0          | 2               | 4/2:1 typ        | 100                           | *         |



## Broadband Low Noise Amplifiers

| Model Number | Frequency Range (GHz) | Gain (dB) Min. | SS Flatness (+/-dB) Max. | NF (dB) Max. | P1dB (dBm) Min. | VSWR In/Out Max. | Current @ 12-15 VDC (mA) Typ. | Case Type |
|--------------|-----------------------|----------------|--------------------------|--------------|-----------------|------------------|-------------------------------|-----------|
| CBL85972370  | 85-97                 | 23             | 2.5                      | 7.0          | 2               | 4/2:1 typ        | 150                           | *         |
| CBL92962370  | 92-96                 | 23             | 2                        | 7.0          | 2               | 4/2:1 typ        | 150                           | *         |

ALL THE ABOVE SPECIFICATIONS ARE @ 25°C

OTHER FREQUENCY BANDS & NOISE FIGURES ARE ALSO AVAILABLE.

TEMPERATURE COMPENSATED AMPLIFIERS & GAIN CONTROL ARE ALSO AVAILABLE.

\*CONSULT THE FACTORY.

\*\*NF WILL BE HIGHER BELOW 0.3GHz

▲ SMALLER CASES (HN SERIES) ARE ALSO AVAILABLE

Δ NOTE: NF BELOW 2GHz WILL BE WORST (6.5dB MAX @ 0.1GHz)

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.