

# Short form Product Description



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### Internally Matched Gain Block Products

| Part No. | BW (MHz) | Freq.(MHz) | Gs (dB) | P1 (dBm) | OIP3/1tone (dBm) | NF (dB) | Vc (V) | Ic (mA) | PKG   |
|----------|----------|------------|---------|----------|------------------|---------|--------|---------|-------|
| BG11C    | 50-4000  | 70         | 22.8    | 15.9     | 29.9             | 4.3     | 5.0    | 48      | SOT89 |
|          |          | 500        | 22.3    | 15.8     | 28.0             | 4.5     |        |         |       |
|          |          | 900        | 21.9    | 16.4     | 29.5             | 3.9     |        |         |       |
|          |          | 1900       | 20.8    | 17.3     | 30.0             | 4.0     |        |         |       |
|          |          | 2450       | 19.9    | 16.5     | 28.0             | 4.2     |        |         |       |
|          | 50-4000  | 70         | 22.3    | 13.0     | 25.6             | 4.1     | 4.5    | 35      | SOT89 |
|          |          | 500        | 21.8    | 12.9     | 23.0             | 4.4     |        |         |       |
|          |          | 900        | 21.5    | 13.0     | 24.0             | 3.8     |        |         |       |
|          |          | 1900       | 20.5    | 14.3     | 26.0             | 3.9     |        |         |       |
|          |          | 2450       | 19.7    | 15.0     | 23.0             | 4.1     |        |         |       |
| BG12B    | 50-4000  | 70         | 18.6    | 20.1     | 36.5             | 2.8     | 5.0    | 77      | SOT89 |
|          |          | 500        | 17.5    | 20.6     | 38.0             | 3.0     |        |         |       |
|          |          | 900        | 17.1    | 20.9     | 37.0             | 2.9     |        |         |       |
|          |          | 1900       | 15.0    | 20.0     | 34.5             | 3.1     |        |         |       |
|          |          | 2450       | 13.9    | 18.3     | 33.0             | 3.2     |        |         |       |
|          | 50-4000  | 70         | 18.5    | 18.0     | 35.0             | 2.6     | 4.5    | 58      | SOT89 |
|          |          | 500        | 17.4    | 18.3     | 34.5             | 2.9     |        |         |       |
|          |          | 900        | 17.0    | 18.5     | 34.0             | 2.8     |        |         |       |
|          |          | 1900       | 14.9    | 18.1     | 30.5             | 3.0     |        |         |       |
|          |          | 2450       | 13.8    | 17.0     | 31.0             | 3.1     |        |         |       |
| BG12C    | 50-4000  | 70         | 21.5    | 20.0     | 36.0             | 2.6     | 5.0    | 67      | SOT89 |
|          |          | 500        | 20.5    | 21.0     | 35.5             | 2.6     |        |         |       |
|          |          | 900        | 20.5    | 21.0     | 35.0             | 2.6     |        |         |       |
|          |          | 1900       | 18.5    | 20.0     | 33.0             | 2.7     |        |         |       |
|          |          | 2450       | 17.5    | 18.0     | 31.0             | 2.8     |        |         |       |
|          | 50-4000  | 70         | 21.0    | 18.0     | 31.0             | 2.5     | 4.5    | 49      | SOT89 |
|          |          | 500        | 20.5    | 18.0     | 31.0             | 2.5     |        |         |       |
|          |          | 900        | 20.2    | 17.5     | 30.5             | 2.5     |        |         |       |
|          |          | 1900       | 18.5    | 17.5     | 30.5             | 2.5     |        |         |       |
|          |          | 2450       | 17.5    | 16.5     | 29.0             | 2.6     |        |         |       |
| BG13B    | 5-4000   | 70         | 13.8    | 18.4     | 38.0             | 8.1     | 5.0    | 70      | SOT89 |
|          |          | 120        | 13.8    | 18.6     | 37.5             | 8.1     |        |         |       |
|          |          | 900        | 13.5    | 18.5     | 37.0             | 8.1     |        |         |       |
|          |          | 1900       | 13.3    | 18.5     | 35.0             | 8.3     |        |         |       |
|          |          | 2140       | 13.0    | 18.5     | 35.0             | 8.3     |        |         |       |
|          | 5-4000   | 70         | 12.5    | 18.5     | 35.0             | 8.4     | 4.5    | 58      | SOT89 |
|          |          | 2450       | 12.5    | 18.5     | 35.0             | 8.4     |        |         |       |
|          |          | 3500       | 12.1    | 17.7     | 30.0             | 8.5     |        |         |       |
|          |          | 70         | 13.7    | 16.0     | 35.0             | 8.1     |        |         |       |
|          |          | 120        | 13.7    | 15.9     | 34.0             | 8.1     |        |         |       |
| BG13D    | 5-4000   | 70         | 26.5    | 18.8     | 36.0             | 4.0     | 5.0    | 65      | SOT89 |
|          |          | 900        | 24.5    | 19.0     | 32.0             | 4.0     |        |         |       |
|          |          | 1900       | 21.5    | 19.0     | 32.0             | 4.2     |        |         |       |
|          |          | 2140       | 21.4    | 19.0     | 31.5             | 4.3     |        |         |       |
|          |          | 2450       | 20.0    | 19.0     | 31.5             | 4.5     |        |         |       |
|          | 5-4000   | 70         | 18.0    | 17.6     | 29.5             | 5.3     | 4.5    | 34      | SOT89 |
|          |          | 3500       | 18.0    | 17.6     | 29.5             | 5.3     |        |         |       |
|          |          | 70         | 24.8    | 14.4     | 26.0             | 4.0     |        |         |       |
|          |          | 900        | 23.1    | 14.1     | 23.0             | 4.0     |        |         |       |
|          |          | 1900       | 20.6    | 13.8     | 23.5             | 4.2     |        |         |       |
| BG14A    | 5-4000   | 70         | 16.0    | 19.0     | 36.0             | 5.4     | 5.0    | 85      | SOT89 |
|          |          | 70         | 17.0    | 19.7     | 38.5             | 5.4     |        |         |       |
|          |          | 900        | 16.7    | 19.7     | 37.5             | 5.5     |        |         |       |
|          |          | 1900       | 16.0    | 19.7     | 35.5             | 6.0     |        |         |       |
|          |          | 2450       | 15.4    | 19.7     | 34.5             | 6.3     |        |         |       |
|          | 5-4000   | 70         | 14.1    | 17.9     | 29.5             | 7.3     | 4.5    | 69      | SOT89 |
|          |          | 3500       | 14.1    | 17.9     | 29.5             | 7.3     |        |         |       |
|          |          | 5          | 15.9    | 17.2     | 35.0             | 5.4     |        |         |       |
|          |          | 70         | 16.9    | 17.9     | 37.5             | 5.4     |        |         |       |
|          |          | 900        | 16.5    | 17.4     | 33.5             | 5.5     |        |         |       |
| BG14B    | 5-4000   | 70         | 15.9    | 17.5     | 32.5             | 6.0     | 5.0    | 75      | SOT89 |
|          |          | 1900       | 15.9    | 17.5     | 32.5             | 6.0     |        |         |       |
|          |          | 2450       | 15.3    | 17.3     | 32.5             | 6.3     |        |         |       |
|          |          | 70         | 17.3    | 19.5     | 37.0             | 5.0     |        |         |       |
|          |          | 120        | 17.7    | 19.5     | 37.0             | 5.0     |        |         |       |
|          | 5-4000   | 900        | 17.0    | 19.5     | 36.5             | 5.0     | 4.5    | 58      | SOT89 |
|          |          | 1900       | 16.0    | 19.5     | 35.0             | 5.2     |        |         |       |
|          |          | 2450       | 15.2    | 19.5     | 33.5             | 5.5     |        |         |       |
|          |          | 3500       | 14.3    | 17.6     | 29.0             | 7.0     |        |         |       |
|          |          | 70         | 16.6    | 17.2     | 33.0             | 4.8     |        |         |       |
| BG15A    | 50-4000  | 70         | 17.0    | 17.2     | 33.0             | 4.9     | 5.0    | 55      | SOT89 |
|          |          | 900        | 16.8    | 16.6     | 32.0             | 5.0     |        |         |       |
|          |          | 1900       | 15.8    | 16.7     | 31.5             | 5.0     |        |         |       |
|          |          | 2450       | 15.1    | 16.8     | 30.5             | 5.5     |        |         |       |
|          |          | 70         | 23.0    | 18.7     | 33.0             | 2.8     |        |         |       |
|          | 50-4000  | 500        | 21.5    | 18.3     | 33.2             | 2.9     | 4.5    | 34      | SOT89 |
|          |          | 900        | 21.2    | 17.8     | 32.7             | 2.9     |        |         |       |
|          |          | 1900       | 19.2    | 17.4     | 31.2             | 2.9     |        |         |       |
|          |          | 2140       | 18.7    | 17.1     | 30.5             | 2.9     |        |         |       |
|          |          | 2450       | 18.0    | 16.7     | 29.6             | 3.1     |        |         |       |
| 50-4000  | 3500     | 16.6       | 15.3    | 28.0     | 3.3              | 4.5     | 34     | SOT89   |       |
|          | 70       | 22.2       | 14.5    | 25.3     | 2.6              |         |        |         |       |
|          | 500      | 20.7       | 14.6    | 25.5     | 2.8              |         |        |         |       |
|          | 900      | 20.6       | 13.9    | 25.1     | 2.8              |         |        |         |       |
|          | 1900     | 18.8       | 14.4    | 25.3     | 2.8              |         |        |         |       |
| 50-4000  | 2140     | 18.3       | 14.5    | 25.2     | 2.8              | 4.5     | 34     | SOT89   |       |
|          | 2450     | 17.5       | 14.8    | 25.0     | 3.0              |         |        |         |       |
|          | 3500     | 16.3       | 14.2    | 25.4     | 3.0              |         |        |         |       |

### Internally Matched Gain Block Products

| Part No. | BW (MHz) | Freq.(MHz) | Gs (dB) | P1 (dBm) | OIP3/1tone (dBm) | NF (dB) | Vc (V) | Ic (mA) | PKG   |
|----------|----------|------------|---------|----------|------------------|---------|--------|---------|-------|
| BG16C    | 5-4000   | 70         | 20.2    | 17.8     | 31.0             | 3dBm    | 5.0    | 40      | SOT89 |
|          |          | 120        | 18.9    | 17.3     | 31.0             |         |        |         |       |
|          |          | 900        | 17.0    | 16.1     | 28.5             |         |        |         |       |
|          |          | 1900       | 16.0    | 15.2     | 27.0             |         |        |         |       |
|          |          | 2140       | 15.7    | 15.5     | 28.0             |         |        |         |       |
|          | 2450     | 15.3       | 15.0    | 27.5     |                  |         |        |         |       |
|          | 5-4000   | 70         | 19.4    | 13.3     | 23.5             | 3dBm    | 4.5    | 29      | SOT89 |
|          |          | 120        | 18.1    | 12.8     | 23.5             |         |        |         |       |
|          |          | 900        | 16.3    | 11.8     | 22.0             |         |        |         |       |
|          |          | 1900       | 15.4    | 12.0     | 20.0             |         |        |         |       |
| 2140     |          | 15.2       | 12.2    | 22.0     |                  |         |        |         |       |
| 2450     | 14.8     | 13.0       | 22.0    |          |                  |         |        |         |       |
| BG17A    | 5-4000   | 70         | 21.0    | 18.3     | 37.0             | 5dBm    | 5.0    | 65      | SOT89 |
|          |          | 120        | 20.3    | 18.9     | 37.0             |         |        |         |       |
|          |          | 900        | 18.8    | 19.2     | 35.0             |         |        |         |       |
|          |          | 1900       | 17.0    | 19.2     | 33.0             |         |        |         |       |
|          |          | 2140       | 16.8    | 19.0     | 32.5             |         |        |         |       |
|          | 2450     | 16.2       | 18.0    | 31.0     |                  |         |        |         |       |
|          | 3500     | 14.8       | 16.1    | 28.6     |                  |         |        |         |       |
|          | 5-4000   | 70         | 20.6    | 15.0     | 31.0             | 5dBm    | 4.5    | 45      | SOT89 |
|          |          | 120        | 19.9    | 15.6     | 31.0             |         |        |         |       |
|          |          | 900        | 18.5    | 15.3     | 29.0             |         |        |         |       |
| 1900     |          | 16.7       | 16.1    | 29.0     |                  |         |        |         |       |
| 2140     |          | 16.5       | 15.9    | 28.5     |                  |         |        |         |       |
| 2450     | 16.0     | 17.0       | 27.5    |          |                  |         |        |         |       |
| BG17C    | 5-4000   | 70         | 20.4    | 17.8     | 34.0             | 2dBm    | 5.0    | 55      | SOT89 |
|          |          | 120        | 19.3    | 18.5     | 33.5             |         |        |         |       |
|          |          | 900        | 17.8    | 17.5     | 31.0             |         |        |         |       |
|          |          | 1900       | 16.4    | 17.0     | 30.0             |         |        |         |       |
|          |          | 2450       | 15.6    | 16.1     | 29.0             |         |        |         |       |
|          | 5-4000   | 70         | 19.5    | 13.6     | 27.5             | 2dBm    | 4.5    | 37      | SOT89 |
|          |          | 120        | 18.6    | 14.3     | 27.0             |         |        |         |       |
|          |          | 900        | 17.4    | 14.3     | 24.5             |         |        |         |       |
|          |          | 1900       | 15.9    | 13.7     | 24.5             |         |        |         |       |
|          |          | 2450       | 15.3    | 12.7     | 24.0             |         |        |         |       |
| BG18A    | 50-4000  | 70         | 17.5    | 18.0     | 36.0             | 7dBm    | 5.0    | 70      | SOT89 |
|          |          | 500        | 16.0    | 18.7     | 37.5             |         |        |         |       |
|          |          | 900        | 15.5    | 19.1     | 36.0             |         |        |         |       |
|          |          | 1900       | 15.0    | 18.9     | 32.5             |         |        |         |       |
|          |          | 2100       | 14.7    | 18.7     | 31.5             |         |        |         |       |
|          | 2450     | 14.3       | 17.8    | 30.5     |                  |         |        |         |       |
|          | 50-4000  | 70         | 17.3    | 16.9     | 33.5             | 7dBm    | 4.5    | 57      | SOT89 |
|          |          | 500        | 15.9    | 16.4     | 33.0             |         |        |         |       |
|          |          | 900        | 15.4    | 16.8     | 32.5             |         |        |         |       |
|          |          | 1900       | 14.9    | 17.1     | 30.5             |         |        |         |       |
| 2100     |          | 14.6       | 17.4    | 30.5     |                  |         |        |         |       |
| 2450     | 14.2     | 16.2       | 29.0    |          |                  |         |        |         |       |
| BG18B    | 50-4000  | 70         | 22.0    | 18.0     | 35.0             | 7dBm    | 5.0    | 72      | SOT89 |
|          |          | 500        | 20.7    | 18.8     | 35.0             |         |        |         |       |
|          |          | 900        | 20.3    | 19.0     | 34.0             |         |        |         |       |
|          |          | 1900       | 18.5    | 18.9     | 31.5             |         |        |         |       |
|          |          | 2100       | 18.3    | 18.6     | 31.0             |         |        |         |       |
|          | 2450     | 17.5       | 17.8    | 30.5     |                  |         |        |         |       |
|          | 3500     | 15.1       | 15.8    | 27.0     |                  |         |        |         |       |
|          | 50-4000  | 70         | 21.7    | 14.1     | 31.5             | 7dBm    | 4.5    | 53      | SOT89 |
|          |          | 500        | 20.5    | 16.8     | 32.0             |         |        |         |       |
|          |          | 900        | 20.1    | 16.5     | 30.5             |         |        |         |       |
| 1900     |          | 18.4       | 16.2    | 29.5     |                  |         |        |         |       |
| 2100     |          | 18.1       | 16.8    | 30.5     |                  |         |        |         |       |
| 2450     | 17.4     | 15.7       | 29.0    |          |                  |         |        |         |       |
| BG18C    | 50-4000  | 70         | 23.5    | 19.0     | 35.0             | 7dBm    | 5.0    | 73      | SOT89 |
|          |          | 500        | 22.4    | 20.0     | 36.0             |         |        |         |       |
|          |          | 900        | 22.2    | 20.1     | 35.5             |         |        |         |       |
|          |          | 1900       | 20.9    | 18.8     | 32.5             |         |        |         |       |
|          |          | 2100       | 20.6    | 18.3     | 31.5             |         |        |         |       |
|          | 2450     | 19.9       | 17.3    | 32.0     |                  |         |        |         |       |
|          | 50-4000  | 70         | 23.1    | 17.3     | 32.0             | 7dBm    | 4.5    | 52      | SOT89 |
|          |          | 500        | 22.2    | 17.2     | 32.0             |         |        |         |       |
|          |          | 900        | 21.9    | 16.7     | 31.0             |         |        |         |       |
|          |          | 1900       | 20.7    | 16.8     | 30.0             |         |        |         |       |
| 2100     |          | 20.5       | 17.2    | 29.5     |                  |         |        |         |       |
| 2450     | 19.8     | 15.4       | 29.0    |          |                  |         |        |         |       |
| BG18D    | 50-4000  | 500        | 24.3    | 19.5     | 36.0             | 7dBm    | 5.0    | 83      | SOT89 |
|          |          | 900        | 24.1    | 19.5     | 35.0             |         |        |         |       |
|          |          | 1900       | 22.2    | 19.0     | 32.0             |         |        |         |       |
|          |          | 2450       | 20.8    | 17.3     | 30.5             |         |        |         |       |
| BBA02    | 40-6000  | 70         | 17.2    | 22.6     | 36.5             | 5dBm    | 5.0    | 90      | SOT89 |
|          |          | 900        | 16.6    | 23.1     | 38.0             |         |        |         |       |
|          |          | 2140       | 15.6    | 23.2     | 35.0             |         |        |         |       |
|          |          | 3500       | 14.5    | 21.2     | 33.0             |         |        |         |       |
|          |          | 5800       | 13.5    | 17.2     | 28.5             |         |        |         |       |

### Internally Matched 3.0-3.3V Gain Block Products

| Part No. | BW (MHz)  | Freq.(MHz) | Gs (dB) | P1 (dBm) | OIP3/1tone (dBm) | NF (dB) | Vc (V) | Ic (mA) | PKG    |
|----------|-----------|------------|---------|----------|------------------|---------|--------|---------|--------|
| BGS1     | 50-4000   | 50         | 24.0    | 15.6     | 28.0             | 0dBm    | 3.2    | 27      | SOT363 |
|          |           | 70         | 23.6    | 15.9     | 27.5             |         |        |         |        |
|          |           | 900        | 22.2    | 16.7     | 26.0             |         |        |         |        |
|          |           | 1900       | 19.2    | 14.9     | 25.4             |         |        |         |        |
|          |           | 2140       | 18.6    | 13.2     | 24.7             |         |        |         |        |
|          |           | 2450       | 17.3    | 12.6     | 24.0             |         |        |         |        |
|          |           | 3500       | 14.9    | 9.9      | 19.2             |         |        |         |        |
|          | 50-4000   | 50         | 22.1    | 14.7     | 20.4             | 0dBm    | 3.0    | 20      | SOT363 |
|          |           | 70         | 21.8    | 15.0     | 21.0             |         |        |         |        |
|          |           | 900        | 20.9    | 16.6     | 23.5             |         |        |         |        |
|          |           | 1900       | 18.3    | 15.1     | 24.4             |         |        |         |        |
|          |           | 2140       | 17.7    | 13.3     | 24.5             |         |        |         |        |
|          |           | 2450       | 16.7    | 12.9     | 24.7             |         |        |         |        |
|          |           | 3500       | 16.7    | 12.9     | 24.7             |         |        |         |        |
| BGS2     | 50-4000   | 50         | 26.8    | 15.4     | 28.5             | 0dBm    | 3.0    | 34      | SOT363 |
|          |           | 70         | 26.5    | 15.6     | 28.0             |         |        |         |        |
|          |           | 900        | 23.6    | 13.4     | 25.5             |         |        |         |        |
|          |           | 1900       | 19.8    | 12.8     | 24.5             |         |        |         |        |
|          |           | 2140       | 19.0    | 11.2     | 23.0             |         |        |         |        |
|          |           | 2450       | 18.1    | 10.8     | 22.5             |         |        |         |        |
|          |           | 3500       | 15.0    | 8.7      | 19.2             |         |        |         |        |
|          | 50-4000   | 50         | 27.6    | 17.4     | 32.0             | 0dBm    | 3.3    | 54      | SOT363 |
|          |           | 70         | 27.3    | 18.0     | 30.0             |         |        |         |        |
|          |           | 900        | 23.9    | 15.0     | 27.0             |         |        |         |        |
|          |           | 1900       | 20.0    | 13.6     | 26.2             |         |        |         |        |
|          |           | 2140       | 19.3    | 12.3     | 24.5             |         |        |         |        |
|          |           | 2450       | 18.4    | 11.7     | 23.1             |         |        |         |        |
|          |           | 3500       | 18.4    | 11.7     | 23.1             |         |        |         |        |
| BGS3     | 30-4000   | 30         | 28.8    | 16.0     | 30.0             | 0dBm    | 3.0    | 55      | SOT363 |
|          |           | 70         | 28.0    | 16.7     | 30.5             |         |        |         |        |
|          |           | 900        | 25.4    | 17.4     | 30.5             |         |        |         |        |
|          |           | 1900       | 21.6    | 16.9     | 30.5             |         |        |         |        |
|          |           | 2140       | 20.8    | 16.0     | 29.0             |         |        |         |        |
|          |           | 2450       | 20.0    | 16.0     | 28.5             |         |        |         |        |
|          |           | 2650       | 19.5    | 15.9     | 28.5             |         |        |         |        |
|          | 3500      | 18.0       | 14.5    | 27.2     |                  |         |        |         |        |
|          | 30-4000   | 30         | 27.9    | 14.2     | 26.6             | 0dBm    | 2.7    | 34      | SOT363 |
|          |           | 70         | 27.1    | 14.7     | 27.9             |         |        |         |        |
|          |           | 900        | 24.7    | 14.8     | 26.4             |         |        |         |        |
|          |           | 1900       | 21.1    | 15.2     | 26.7             |         |        |         |        |
|          |           | 2140       | 20.5    | 14.5     | 26.3             |         |        |         |        |
|          |           | 2450       | 19.6    | 14.8     | 26.5             |         |        |         |        |
| 2650     |           | 19.1       | 15.2    | 27.1     |                  |         |        |         |        |
| BGS4     | 50~4000   | 70         | 24.7    | 20.4     | 31.0             | -3dBm   | 3.3    | 26      | SOT363 |
|          |           | 500        | 22.0    | 20.3     | 28.0             |         |        |         |        |
|          |           | 900        | 19.7    | 19.9     | 28.0             |         |        |         |        |
|          |           | 1900       | 14.2    | 18.8     | 30.0             |         |        |         |        |
|          |           | 2140       | 13.2    | 19.0     | 29.5             |         |        |         |        |
|          |           | 2650       | 11.1    | 19.0     | 30.0             |         |        |         |        |
|          |           | 3500       | 10.3    | 18.9     | 30.8             |         |        |         |        |
|          |           | 4000       | 10.3    | 18.9     | 30.8             |         |        |         |        |
| BGS5     | 40-4000   | 40         | 19.0    | 15.0     | 32.5             | 0dBm    | 3.0    | 52      | SOT363 |
|          |           | 70         | 17.3    | 15.5     | 32.5             |         |        |         |        |
|          |           | 900        | 16.5    | 16.2     | 31.5             |         |        |         |        |
|          |           | 1900       | 15.0    | 15.4     | 28.5             |         |        |         |        |
|          |           | 2140       | 14.6    | 15.0     | 28.0             |         |        |         |        |
|          |           | 2450       | 14.1    | 14.4     | 27.0             |         |        |         |        |
|          |           | 2650       | 13.8    | 14.5     | 27.0             |         |        |         |        |
|          | 3500      | 13.3       | 13.7    | 24.6     |                  |         |        |         |        |
|          | 40-4000   | 40         | 18.7    | 13.4     | 29.5             | 0dBm    | 2.7    | 39      | SOT363 |
|          |           | 70         | 18.0    | 13.8     | 29.4             |         |        |         |        |
|          |           | 900        | 16.7    | 13.7     | 27.7             |         |        |         |        |
|          |           | 1900       | 14.9    | 13.3     | 26.1             |         |        |         |        |
|          |           | 2140       | 14.6    | 12.8     | 25.4             |         |        |         |        |
|          |           | 2450       | 14.1    | 12.8     | 24.8             |         |        |         |        |
| 2650     |           | 13.7       | 13.1    | 25.0     |                  |         |        |         |        |
| BGS6     | 50-4000   | 400        | 23.3    | 16.5     | 26.0             | 0dBm    | 3.3    | 27      | SOT343 |
|          |           | 900        | 21.8    | 17.0     | 26.0             |         |        |         |        |
|          |           | 1900       | 18.0    | 14.0     | 26.0             |         |        |         |        |
|          |           | 2450       | 16.2    | 12.5     | 24.0             |         |        |         |        |
|          |           | 2650       | 15.6    | 12.0     | 23.0             |         |        |         |        |
|          |           | 3500       | 15.6    | 12.0     | 23.0             |         |        |         |        |
| BNT01    | 1500-3000 | 1900       | 15.5    | 22.0     | 37.0             | 5dBm    | 4.4    | 68      | SOT89  |
|          |           | 2140       | 14.5    | 22.0     | 37.0             |         |        |         |        |
|          |           | 2650       | 13.0    | 22.0     | 36.0             |         |        |         |        |
|          |           | 1900       | 15.0    | 19.5     | 35.5             | 3dBm    | 3.3    | 47      |        |
|          |           | 2140       | 14.0    | 20.0     | 36.0             |         |        |         |        |
|          |           | 2650       | 12.5    | 20.0     | 35.0             |         |        |         |        |

### Internally Matched IF Amp. Products

| Part No. | BW (MHz) | Freq.(MHz) | Gs (dB) | P1 (dBm) | OIP3/1tone (dBm) | NF (dB) | Vc (V) | Ic (mA) | PKG   |
|----------|----------|------------|---------|----------|------------------|---------|--------|---------|-------|
| BG20A    | 5-800    | 70         | 24.0    | 20.5     | 39.0             | 3.4     | 5.0    | 90      | SOT89 |
|          |          | 140        | 23.9    | 20.5     | 37.0             | 3.4     |        |         |       |
|          |          | 250        | 23.7    | 20.5     | 37.0             | 3.5     |        |         |       |
|          |          | 500        | 23.1    | 20.5     | 36.0             | 3.6     |        |         |       |
|          | 5-800    | 70         | 23.8    | 18.3     | 33.5             | 3.4     | 4.5    | 64      | SOT89 |
|          |          | 140        | 23.7    | 18.3     | 31.0             | 3.4     |        |         |       |
|          |          | 250        | 23.5    | 18.3     | 32.0             | 3.5     |        |         |       |
|          |          | 500        | 22.9    | 18.3     | 32.0             | 3.6     |        |         |       |
| BG20B    | 5-800    | 70         | 22.0    | 21.0     | 41.0             | 4.6     | 5.0    | 105     | SOT89 |
|          |          | 140        | 21.9    | 21.0     | 39.5             | 4.7     |        |         |       |
|          |          | 250        | 21.7    | 21.0     | 38.5             | 4.7     |        |         |       |
|          |          | 500        | 21.0    | 21.0     | 36.0             | 4.8     |        |         |       |
|          | 5-800    | 70         | 21.8    | 19.8     | 34.0             | 4.6     | 4.5    | 79      | SOT89 |
|          |          | 140        | 21.8    | 19.3     | 37.0             | 4.7     |        |         |       |
|          |          | 250        | 21.6    | 19.2     | 35.5             | 4.7     |        |         |       |
|          |          | 500        | 20.9    | 19.6     | 33.5             | 4.8     |        |         |       |
| BIF1     | 50-800   | 70         | 15.2    | 20.0     | 44.0             | 4.2     | 5.0    | 105     | SOT89 |
|          |          | 140        | 15.2    | 20.8     | 42.0             | 4.3     |        |         |       |
|          |          | 250        | 15.1    | 20.9     | 40.5             | 4.3     |        |         |       |
|          |          | 500        | 15.0    | 21.0     | 40.0             | 4.4     |        |         |       |
|          | 50-800   | 70         | 15.0    | 18.6     | 37.5             | 4.5     | 4.5    | 79      | SOT89 |
|          |          | 140        | 15.1    | 19.3     | 42.0             | 4.2     |        |         |       |
|          |          | 250        | 15.0    | 19.4     | 38.0             | 4.3     |        |         |       |
|          |          | 500        | 14.9    | 19.3     | 38.0             | 4.4     |        |         |       |
| BIF3     | 50-800   | 70         | 20.3    | 23.5     | 43.0             | 5.1     | 5.0    | 85      | SOT89 |
|          |          | 140        | 20.2    | 24.5     | 41.5             | 5.2     |        |         |       |
|          |          | 250        | 19.9    | 24.5     | 40.5             | 5.2     |        |         |       |
|          |          | 500        | 19.0    | 24.2     | 40.5             | 5.3     |        |         |       |
|          | 50-800   | 70         | 20.2    | 22.1     | 34.5             | 5.3     | 4.5    | 54      | SOT89 |
|          |          | 140        | 20.2    | 23.0     | 37.5             | 5.1     |        |         |       |
|          |          | 250        | 19.8    | 23.1     | 34.5             | 5.2     |        |         |       |
|          |          | 500        | 18.7    | 22.6     | 35.5             | 5.3     |        |         |       |
| BIF5     | 50-1200  | 70         | 17.5    | 20.5     | 43.0             | 4.0     | 5.0    | 107     | SOT89 |
|          |          | 140        | 17.5    | 20.5     | 42.5             | 4.1     |        |         |       |
|          |          | 250        | 17.5    | 20.5     | 41.0             | 4.2     |        |         |       |
|          |          | 500        | 17.5    | 21.0     | 40.0             | 4.3     |        |         |       |
|          | 50-1200  | 70         | 17.4    | 19.2     | 40.0             | 4.0     | 4.5    | 85      | SOT89 |
|          |          | 140        | 17.4    | 19.0     | 41.0             | 4.1     |        |         |       |
|          |          | 250        | 17.5    | 19.2     | 38.5             | 4.2     |        |         |       |
|          |          | 500        | 17.4    | 19.4     | 36.5             | 4.3     |        |         |       |
| BIF7     | 50-1200  | 70         | 27.0    | 21.0     | 40.0             | 2.9     | 5.0    | 95      | SOT89 |
|          |          | 140        | 27.0    | 21.5     | 38.5             | 2.9     |        |         |       |
|          |          | 250        | 26.5    | 21.5     | 38.0             | 3.0     |        |         |       |
|          |          | 500        | 25.5    | 21.0     | 36.0             | 3.0     |        |         |       |
|          | 50-1200  | 70         | 26.7    | 18.8     | 34.5             | 2.9     | 4.5    | 67      | SOT89 |
|          |          | 140        | 26.6    | 19.2     | 34.0             | 2.9     |        |         |       |
|          |          | 250        | 26.2    | 19.5     | 33.0             | 3.0     |        |         |       |
|          |          | 500        | 25.1    | 19.6     | 31.5             | 3.0     |        |         |       |
| BIG2     | 50-600   | 70         | 15.6    | 20.3     | 40.0             | 3.3     | 5.0    | 83      | SOT89 |
|          |          | 140        | 15.8    | 20.7     | 41.5             | 3.3     |        |         |       |
|          |          | 200        | 15.9    | 20.9     | 40.1             | 3.3     |        |         |       |
|          |          | 500        | 15.9    | 20.0     | 38.2             | 3.2     |        |         |       |
|          | 50-600   | 70         | 15.6    | 18.6     | 38.0             | 3.2     | 4.5    | 68      | SOT89 |
|          |          | 140        | 15.7    | 18.8     | 38.5             | 3.2     |        |         |       |
|          |          | 200        | 15.8    | 18.9     | 37.5             | 3.1     |        |         |       |
|          |          | 500        | 15.8    | 18.6     | 35.5             | 3.1     |        |         |       |
| BIG4     | 50-600   | 70         | 20.9    | 21.0     | 40.0             | 2.7     | 5.0    | 85      | SOT89 |
|          |          | 140        | 20.6    | 20.5     | 40.5             | 2.9     |        |         |       |
|          |          | 200        | 20.2    | 20.5     | 40.5             | 3.0     |        |         |       |
|          |          | 500        | 19.5    | 20.0     | 40.5             | 3.1     |        |         |       |
|          | 50-600   | 70         | 20.8    | 19.3     | 38.9             | 2.6     | 4.5    | 69      | SOT89 |
|          |          | 140        | 20.4    | 19.1     | 39.0             | 2.8     |        |         |       |
|          |          | 200        | 20.0    | 18.9     | 39.0             | 2.9     |        |         |       |
|          |          | 500        | 19.2    | 18.8     | 39.0             | 3.0     |        |         |       |
| BIG8     | 50-600   | 70         | 27.0    | 20.5     | 40.5             | 2.7     | 5.0    | 94      | SOT89 |
|          |          | 140        | 27.0    | 21.0     | 40.0             | 2.9     |        |         |       |
|          |          | 200        | 27.0    | 21.0     | 39.0             | 3.0     |        |         |       |
|          |          | 500        | 26.0    | 20.5     | 38.5             | 3.1     |        |         |       |
|          | 50-600   | 70         | 26.7    | 19.1     | 34.8             | 2.8     | 4.5    | 66      | SOT89 |
|          |          | 140        | 26.7    | 19.2     | 34.9             | 2.8     |        |         |       |
|          |          | 200        | 26.5    | 19.1     | 33.7             | 2.8     |        |         |       |
|          |          | 500        | 25.7    | 18.4     | 32.5             | 2.9     |        |         |       |

### High OIP3 Products

| Part No. | BW (MHz)    | Freq. (MHz) | Gs (dB) | P1 (dBm) | OIP3/tone (dBm) | NF (dB) | Vc (V) | Ic (mA) | PKG |       |
|----------|-------------|-------------|---------|----------|-----------------|---------|--------|---------|-----|-------|
| BT05AG   | 5-4000      | 70          | 24.5    | 23.0     | 38.0            | 10dBm   | 4.6    | 5.0     | 85  | SOT89 |
|          |             | 900         | 20.8    | 22.4     | 37.0            |         | 4.5    |         |     |       |
|          |             | 1900        | 16.3    | 22.5     | 40.0            |         | 4.4    |         |     |       |
|          |             | 2450        | 14.3    | 23.0     | 37.5            |         | 4.3    |         |     |       |
| BT05CV   | 5-4000      | 70          | 23.4    | 24.2     | 39.5            | 9dBm    | 4.6    | 5.0     | 85  | SOT89 |
|          |             | 900         | 21.5    | 23.9     | 43.5            |         | 4.4    |         |     |       |
|          |             | 1900        | 17.5    | 23.6     | 42.0            |         | 4.2    |         |     |       |
|          |             | 2450        | 15.0    | 24.1     | 40.5            |         | 4.3    |         |     |       |
|          |             | 3500        | 12.3    | 23.1     | 40.0            |         | 5.4    |         |     |       |
| BT05VG   | 1500-4000   | 1900        | 18.0    | 22.5     | 39.0            | 10dBm   | 4.6    | 5.0     | 85  | SOT89 |
|          |             | 2100        | 16.5    | 22.5     | 39.0            |         | 5.0    |         |     |       |
|          |             | 2450        | 15.0    | 23.5     | 39.0            |         | 4.6    |         |     |       |
| BT05VG2  | 1500-4000   | 1900        | 19.0    | 22.7     | 40.5            | 11dBm   | 3.9    | 5.0     | 85  | SOT89 |
|          |             | 2100        | 18.0    | 22.0     | 38.0            |         | 4.0    |         |     |       |
|          |             | 2450        | 16.5    | 23.2     | 38.0            |         | 4.2    |         |     |       |
| BT09AG   | 5-4000      | 70          | 25.0    | 24.5     | 39.0            | 14dBm   | 3.7    | 5.0     | 160 | SOT89 |
|          |             | 170         | 25.0    | 25.5     | 40.0            |         | 3.8    |         |     |       |
|          |             | 240         | 24.8    | 25.0     | 40.0            |         | 3.9    |         |     |       |
|          |             | 500         | 23.0    | 24.5     | 41.5            |         | 3.8    |         |     |       |
|          |             | 900         | 20.0    | 24.5     | 42.0            |         | 4.2    |         |     |       |
|          |             | 1900        | 14.5    | 24.2     | 42.0            |         | 4.2    |         |     |       |
|          |             | 2450        | 12.5    | 26.0     | 42.0            |         | 4.3    |         |     |       |
| BT09VG   | 5-4000      | 900         | 21.5    | 24.5     | 39.0            | 13dBm   | 3.7    | 5.0     | 160 | SOT89 |
|          |             | 1900        | 15.5    | 25.5     | 41.0            |         | 4.0    |         |     |       |
|          |             | 2450        | 13.5    | 27.0     | 41.5            |         | 4.7    |         |     |       |
| BT09E    | 500-4000MHz | 900         | 22.8    | 25.8     | 40.5            | 10dBm   | 4.3    | 5.0     | 85  | SOT89 |
|          |             | 1900        | 18.7    | 25.2     | 37.0            |         | 4.4    |         |     |       |
|          |             | 2140        | 17.7    | 25.2     | 37.0            |         | 4.5    |         |     |       |
|          |             | 2650        | 16.1    | 25.1     | 36.5            |         | 4.7    |         |     |       |
|          |             | 3500        | 13.7    | 24.9     | 36.5            |         | 5.1    |         |     |       |
| BT013    | 1500-4000   | 1900        | 15.0    | 27.5     | 45.0            | 13dBm   | 6.8    | 5.0     | 135 | SOT89 |
|          |             | 2140        | 14.0    | 27.2     | 45.0            |         | 6.8    |         |     |       |
|          |             | 2400        | 13.2    | 27.0     | 43.0            |         | 6.8    |         |     |       |

### Medium Power Amplifier

| Part No. | BW (MHz)  | Freq. (MHz) | Gs (dB) | P1 (dBm) | OIP3/tone (dBm) | NF (dB) | Vc (V) | Ic (mA) | PKG |       |
|----------|-----------|-------------|---------|----------|-----------------|---------|--------|---------|-----|-------|
| BT301    | 500-4000  | 900         | 18.5    | 29.5     | 49.0            | 16dBm   | 8.5    | 5.0     | 350 | SOIC8 |
|          |           | 1900        | 12.5    | 30.3     | 49.0            |         | 8.6    |         |     |       |
|          |           | 2100        | 11.5    | 30.3     | 47.0            |         | 7.5    |         |     |       |
|          |           | 2400        | 10.5    | 30.3     | 49.0            |         | 7.5    |         |     |       |
|          |           | 3500        | 7.6     | 27.9     | 42.5            |         | 7.3    |         |     |       |
| BT302    | 500-4000  | 915         | 22.0    | 29.6     | 43.0            | 16dBm   | 4.1    | 5.0     | 215 | SOT89 |
|          |           | 2140        | 17.0    | 29.2     | 41.8            |         | 4.2    |         |     |       |
|          |           | 2400        | 16.0    | 29.5     | 42.1            |         | 4.2    |         |     |       |
|          |           | 2600        | 15.3    | 29.5     | 41.3            |         | 4.2    |         |     |       |
|          |           | 3500        | 13.2    | 29.2     | 40.8            |         | 4.3    |         |     |       |
| BT331    | 700-2700  | 900         | 19.8    | 32.0     | 49.0            | 20dBm   | 4.8    | 5.0     | 410 | SOIC8 |
|          |           | 1900        | 14.0    | 33.2     | 52.0            |         | 5.0    |         |     |       |
|          |           | 2140        | 13.2    | 32.6     | 52.0            |         | 5.0    |         |     |       |
|          |           | 2600        | 12.1    | 31.2     | 47.0            |         | 5.4    |         |     |       |
|          |           | 3500        | 10.7    | 29.5     | 45.8            |         | 6.2    |         |     |       |
| BT33L    | 200-1000  | 200         | 25.7    | 31.8     | 42.8            | 20dBm   | 8.6    | 5.0     | 410 | QFN   |
|          |           | 540         | 23.4    | 32.4     | 47.3            |         | 6.5    |         |     |       |
|          |           | 700         | 22.0    | 33.0     | 48.4            |         | 6.8    |         |     |       |
|          |           | 900         | 21.3    | 32.7     | 47.6            |         | 6.8    |         |     |       |
| BMT321   | 1500-2800 | 1700        | 27.8    | 32.4     | 50.0            | 17dBm   | 5.8    | 5.0     | 381 | QFN   |
|          |           | 1800        | 27.4    | 32.4     | 50.0            |         | 5.3    |         |     |       |
|          |           | 1900        | 27.0    | 32.5     | 50.0            |         | 5.0    |         |     |       |
|          |           | 2140        | 25.3    | 32.4     | 50.0            |         | 5.2    |         |     |       |
|          |           | 2650        | 22.3    | 31.4     | 50.0            |         | 5.0    |         |     |       |
| BMT332   | 700-2400  | 850         | 33.7    | 33.8     | 50.0            | 23dBm   | 6.9    | 5.0     | 680 | QFN   |
|          |           | 1750        | 28.0    | 33.5     | 49.0            |         | 6.0    |         |     |       |
|          |           | 1850        | 27.3    | 33.3     | 48.0            |         | 6.0    |         |     |       |
|          |           | 1960        | 26.7    | 33.1     | 48.0            |         | 5.6    |         |     |       |
|          |           | 2140        | 26.0    | 33.1     | 47.0            |         | 5.5    |         |     |       |
|          |           | 2350        | 24.0    | 33.1     | 48.0            |         | 5.4    |         |     |       |
|          |           | 1800        | 29.7    | 32.9     | 45.1            |         | 5.9    |         |     |       |
| BMT333   | 1800-2700 | 2350        | 27.4    | 34.1     | 50.0            | 23dBm   | 5.3    | 5.0     | 550 | QFN   |
|          |           | 2550        | 26.2    | 33.3     | 48.3            |         | 5.0    |         |     |       |
|          |           | 2650        | 25.5    | 33.5     | 48.2            |         | 5.1    |         |     |       |
|          |           | 3400        | 20.8    | 31.4     | 47.0            |         | 5.1    |         |     |       |
| BMT352   | 3000-4000 | 3500        | 20.7    | 31.5     | 45.0            | 17dBm   | 5.1    | 5.0     | 356 | QFN   |
|          |           | 3600        | 20.6    | 31.8     | 47.0            |         | 5.2    |         |     |       |
|          |           | 3700        | 20.5    | 31.7     | 45.0            |         | 5.5    |         |     |       |
|          |           | 3800        | 20.5    | 31.4     | 41.5            |         | 5.8    |         |     |       |
|          |           | 3400        | 20.8    | 31.4     | 47.0            |         | 5.1    |         |     |       |

### Wide Band Low Noise Amplifier

| Part No.              | BW (MHz)  | Freq. (MHz) | Gs (dB) | P1 (dBm) | OIP3/tone (dBm) | NF (dB) | Vd (V) | Id (mA) | PKG    |
|-----------------------|-----------|-------------|---------|----------|-----------------|---------|--------|---------|--------|
| <a href="#">BL011</a> | 5-4000    | 900         | 22.0    | 20.5     | 33.5            | 5dBm    | 5.0    | 75      | SOT89  |
|                       |           | 1900        | 17.0    | 20.5     | 36.0            |         |        |         |        |
|                       |           | 2140        | 16.5    | 20.5     | 35.5            |         |        |         |        |
|                       |           | 2450        | 15.5    | 20.0     | 38.0            |         |        |         |        |
|                       |           |             |         |          |                 |         |        |         |        |
| <a href="#">BL022</a> | 50-3000   | 70          | 26.0    | 22.0     | 33.0            | 5dBm    | 5.0    | 70      | SOT89  |
|                       |           | 900         | 22.0    | 22.0     | 33.5            |         |        |         |        |
|                       |           | 1900        | 17.0    | 22.0     | 36.0            |         |        |         |        |
|                       |           | 2140        | 16.0    | 22.0     | 36.0            |         |        |         |        |
|                       |           | 2650        | 14.5    | 22.0     | 36.5            |         |        |         |        |
| <a href="#">BL081</a> | 5-4000    | 900         | 20.5    | 17.5     | 28.5            | 5dBm    | 5.0    | 27      | SOT89  |
|                       |           | 1900        | 17.0    | 17.5     | 30.0            |         |        |         |        |
|                       |           | 2140        | 16.0    | 17.5     | 30.0            |         |        |         |        |
|                       |           | 2450        | 15.5    | 17.5     | 30.0            |         |        |         |        |
|                       |           | 3500        | 13.4    | 18.5     | 31.1            |         |        |         |        |
| <a href="#">BL082</a> | 5-4000    | 900         | 20.9    | 18.8     | 28.0            | 5dBm    | 5.0    | 27      | SOT363 |
|                       |           | 1900        | 17.1    | 19.2     | 30.3            |         |        |         |        |
|                       |           | 2140        | 16.2    | 19.5     | 30.6            |         |        |         |        |
|                       |           | 2350        | 15.6    | 19.3     | 31.6            |         |        |         |        |
|                       |           | 2650        | 14.6    | 19.0     | 31.4            |         |        |         |        |
| <a href="#">BNT01</a> | 1500-3000 | 1900        | 15.5    | 22.0     | 37.0            | 5dBm    | 4.4    | 68      | SOT89  |
|                       |           | 2140        | 14.5    | 22.0     | 37.0            |         |        |         |        |
|                       |           | 2650        | 13.0    | 22.0     | 36.0            |         |        |         |        |
| <a href="#">BLB01</a> | 500-1500  | 500         | 24.5    | 21.2     | 38.0            | 0dBm    | 5.0    | 66      | DFN2x2 |
|                       |           | 700         | 22.5    | 21.1     | 37.5            |         |        |         |        |
|                       |           | 900         | 21.0    | 20.9     | 35.5            |         |        |         |        |
|                       |           | 1500        | 17.5    | 19.3     | 32.5            |         |        |         |        |
| <a href="#">BLB02</a> | 1500-2700 | 1750        | 19.0    | 19.5     | 36.0            | 0dBm    | 5.0    | 60      | DFN2x2 |
|                       |           | 1950        | 18.1    | 19.5     | 36.8            |         |        |         |        |
|                       |           | 2140        | 17.5    | 19.2     | 35.0            |         |        |         |        |
|                       |           | 2650        | 15.6    | 19.0     | 33.0            |         |        |         |        |

### Multi - Band 4 Way SMT Power Divider

| Part No.               | BW(MHz)                                      | Freq. (MHz) | I/L (dB) | Iso. (dB) | Phase Diff. | Amplitude Diff. | *Solder | *PKG | Impedance |       |        |
|------------------------|--|-------------|----------|-----------|-------------|-----------------|---------|------|-----------|-------|--------|
| <a href="#">BD0926</a> | 700-1000<br>Cellular,GSM<br>900              | 750         | 0.55     | 22.0      | 0.2         | Deg             | 0.01    | dB   | without   | SOT26 | 50 Ohm |
|                        |  | 850         | 0.57     | 31.4      | 0.2         |                 |         |      |           |       |        |
|                        |  | 950         | 0.63     | 19.0      | 0.4         |                 |         |      |           |       |        |
| <a href="#">BD1926</a> | 1700-2300 PCS,<br>WCDMA                      | 1700        | 0.51     | 20.1      | 1.4         | Deg             | 0.04    | dB   | without   | SOT26 | 50 Ohm |
|                        |  | 1900        | 0.55     | 24.8      | 1.5         |                 |         |      |           |       |        |
|                        |  | 2075        | 0.63     | 21.6      | 1.5         |                 |         |      |           |       |        |
| <a href="#">BD2326</a> | 1900-2500 PCS,<br>WCDMA, WiBro, TD-<br>SCDMA | 1900        | 0.58     | 23.3      | 0.7         | Deg             | 0.03    | dB   | without   | SOT26 | 50 Ohm |
|                        |  | 2075        | 0.59     | 27.5      | 0.7         |                 |         |      |           |       |        |
|                        |  | 2350        | 0.69     | 19.5      | 0.6         |                 |         |      |           |       |        |
| <a href="#">BD2626</a> | 2400-2900,<br>WCDMA,WiBro,<br>LTE            | 2400        | 0.61     | 23.3      | 0.75        | Deg             | 0.07    | dB   | without   | SOT26 | 50 Ohm |
|                        |  | 2500        | 0.59     | 25.1      | 0.75        |                 |         |      |           |       |        |
|                        |  | 2650        | 0.61     | 28.2      | 0.75        |                 |         |      |           |       |        |
|                        |  | 2800        | 0.66     | 25.8      | 0.75        |                 |         |      |           |       |        |
|                        |  | 2900        | 0.64     | 22.0      | 0.75        |                 |         |      |           |       |        |

\* Solder : Can be used without back side ground soldering or with it.

\* PKG : Industry Standard SOIC-8 SMT Plastic Package with exposed back side ground pad.

### RF Mixer with Integrated LO Amp

| Part No.              | RF Freq.(MHz) | IF Freq.(MHz) | Conversion loss(dB) | P1 (dBm) | Input IP3(dBm) | Lo power(dBm) | Vd(V) | Current(mA) | Package |
|-----------------------|---------------|---------------|---------------------|----------|----------------|---------------|-------|-------------|---------|
| <a href="#">BM831</a> | 700-1400      | 50 ~ 210      | 9.1                 | 24.2     | 31.7           | -2 ~ +2       | 5     | 58          | MSOP-8  |
|                       | 700-1400      | 50 ~ 210      | 9                   | 19.1     | 28.5           | -2 ~ +2       | 3.3   | 45          | MSOP-8  |
| <a href="#">BM851</a> | 1700-2700     | 50 ~ 300      | 8.1                 | 23       | 32.8           | -2 ~ +4       | 5     | 57.5        | MSOP-8  |
|                       | 1700-2700     | 50 ~ 300      | 8.2                 | 18.8     | 30.3           | -2 ~ +4       | 3.3   | 44.5        | MSOP-8  |

### Digital Variable Gain Amplifier

| Part No.                | Freq. (MHz) | Gain(dB) at 1900MHz | OP1dB(dBm) at 1900MHz | OIP3(dBm) at 1900MHz | ATT Range/ Step Size(dB) | Control Interface | Vc(V) | Icc(mA) | NF(dB) | PKG     |
|-------------------------|-------------|---------------------|-----------------------|----------------------|--------------------------|-------------------|-------|---------|--------|---------|
| <a href="#">BVA303</a>  | 30-4000     | 21.0                | 16.0                  | 30.0                 | 31.5 / 0.5               | Serial/Parallel   | 3.0   | 54      | 2.9    | QFN 4x4 |
| <a href="#">BVA304</a>  | 30-4000     | 12.3                | 19.3                  | 31.0                 | 31.5/0.5                 | Serial/Parallel   | 3.3   | 26      | 3.6    | QFN 4x4 |
| <a href="#">BVA305</a>  | 40-4000     | 14.0                | 14.8                  | 29.0                 | 31.5 / 0.5               | Serial/Parallel   | 3.0   | 54      | 4.1    | QFN 4x4 |
| <a href="#">BVA518</a>  | 5-4000      | 19.1                | 18.6                  | 32.2                 | 31.5 / 0.5               | Serial/Parallel   | 5.0   | 73      | 5.8    | QFN 4x4 |
| <a href="#">BVA2140</a> | 700-4000    | 31.3                | 25.9                  | 39.0                 | 31.5 / 0.5               | Serial/Parallel   | 5.0   | 150     | 2.7    | QFN 4x4 |
| Part No.                | Freq. (GHz) | Gain(dB)            | OP1dB(dBm)            | OIP3(dBm)            | ATT Range/ Step Size(dB) | Control Interface | Vc(V) | Icc(mA) | NF(dB) | PKG     |
| <a href="#">BVA3143</a> | 3.3-3.8     | 40.0                | 26.5                  | 41.5                 | 31.75/0.25               | Serial/Parallel   | 5.0   | 306     | 3.9    | LGA 6x6 |
| <a href="#">BVA3144</a> | 4.4-4.9     | 36.5                | 26.5                  | 40.0                 | 31.75/0.25               | Serial/Parallel   | 5.0   | 310     | 4.1    | LGA 6x6 |

### Wide Band Single Pole Double Throw Switch

| Part No.               | BW(MHz) | Freq.(MHz) | Insertion Loss(dB) | Isolation RF1/RF2(dB) | Return Loss/On state(dB) | Return Loss/ Off state(dB) | Input P1(dBm) | Input IP3(dBm) |
|------------------------|---------|------------|--------------------|-----------------------|--------------------------|----------------------------|---------------|----------------|
| <a href="#">BSW841</a> | DC-4000 | DC-1GHz    | 0.6                | 50.0/51.5             | 26.0                     | 17.0                       | 24.0          | 47.0           |
|                        |         | DC-2GHz    | 0.7                | 43.5/45.0             | 21.0                     |                            | 23.0          | 48.0           |
|                        |         | DC-3GHz    | 0.8                | 33.0/34.0             | 23.5                     |                            | 22.0          | 47.0           |
|                        |         | DC-4GHz    | 0.9                | 27.0/27.5             | 16.1                     |                            | 22.0          | 46.0           |

### High Linearity Reflective Single Pole Double Throw Switch

| Part No.                | BW(MHz) | Freq.(MHz) | Insertion Loss(dB) | Isolation(dB) RFC to RFx | Return Loss((dB) | Input P1(dBm) | Input IP3(dBm) | 2nd Harmonic (dBc) | Switching Time(ns)        |                           |
|-------------------------|---------|------------|--------------------|--------------------------|------------------|---------------|----------------|--------------------|---------------------------|---------------------------|
| <a href="#">BSW6321</a> | 1-6000  | DC_1000    | 0.42               | 52                       | 20               | 39            | 63             | 85                 | 500 ns_50% ctrl to 90% RF | 400 ns_50% ctrl to 10% RF |
|                         |         | DC_2000    | 0.48               | 43                       |                  |               |                |                    |                           |                           |
|                         |         | DC_4000    | 0.60               | 33                       |                  | 36            | 67             | 95                 |                           |                           |
|                         |         | DC_6000    | 0.80               | 28                       |                  |               |                |                    |                           |                           |
| <a href="#">BSW6421</a> | 1-6000  | DC_1000    | 0.69               | 55                       | 20               | 39            | 63             | 95                 | 500 ns_50% ctrl to 90% RF | 400 ns_50% ctrl to 10% RF |
|                         |         | DC_2000    | 0.74               | 51                       |                  |               |                |                    |                           |                           |
|                         |         | DC_4000    | 1.01               | 55                       |                  | 37            | 68             | 100                |                           |                           |
|                         |         | DC_6000    | 1.15               | 35                       |                  |               |                |                    |                           |                           |