

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 | 3500 | 16.1 | 15.5 | 27.2 | 2.8 | 4.5 | 49 | SOT89 |
| | | 70 | 21.0 | 18.0 | 31.0 | 2.5 | | | |
| | | 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 | | | |
| 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 | 2450 | 12.5 | 18.5 | 35.0 | 8.4 | 4.5 | 58 | SOT89 |
| | | 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 | | | |
| | | 900 | 13.4 | 15.8 | 32.0 | 8.1 | | | |
| BG13D | 5-4000 | 1900 | 13.2 | 15.9 | 31.5 | 8.3 | 5.0 | 65 | SOT89 |
| | | 2140 | 12.9 | 15.9 | 31.0 | 8.3 | | | |
| | | 2450 | 12.5 | 16.1 | 32.5 | 8.4 | | | |
| | | 70 | 26.5 | 18.8 | 36.0 | 4.0 | | | |
| | | 900 | 24.5 | 19.0 | 32.0 | 4.0 | | | |
| | 5-4000 | 1900 | 21.5 | 19.0 | 32.0 | 4.2 | 4.5 | 34 | SOT89 |
| | | 2140 | 21.4 | 19.0 | 31.5 | 4.3 | | | |
| | | 2450 | 20.0 | 19.0 | 31.5 | 4.5 | | | |
| | | 3500 | 18.0 | 17.6 | 29.5 | 5.3 | | | |
| | | 70 | 24.8 | 14.4 | 26.0 | 4.0 | | | |
| BG14A | 5-4000 | 900 | 23.1 | 14.1 | 23.0 | 4.0 | 5.0 | 85 | SOT89 |
| | | 1900 | 20.6 | 13.8 | 23.5 | 4.2 | | | |
| | | 2140 | 20.5 | 13.8 | 23.0 | 4.3 | | | |
| | | 2450 | 19.3 | 15.2 | 23.5 | 4.5 | | | |
| | | 70 | 16.0 | 19.0 | 36.0 | 5.4 | | | |
| | 5-4000 | 70 | 17.0 | 19.7 | 38.5 | 5.4 | 4.5 | 69 | SOT89 |
| | | 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 | | | |
| | | 3500 | 14.1 | 17.9 | 29.5 | 7.3 | | | |
| BG14B | 5-4000 | 5 | 15.9 | 17.2 | 35.0 | 5.4 | 5.0 | 75 | SOT89 |
| | | 70 | 16.9 | 17.9 | 37.5 | 5.4 | | | |
| | | 900 | 16.5 | 17.4 | 33.5 | 5.5 | | | |
| | | 1900 | 15.9 | 17.5 | 32.5 | 6.0 | | | |
| | | 2450 | 15.3 | 17.3 | 32.5 | 6.3 | | | |
| | 5-4000 | 70 | 17.3 | 19.5 | 37.0 | 5.0 | 4.5 | 58 | SOT89 |
| | | 120 | 17.7 | 19.5 | 37.0 | 5.0 | | | |
| | | 900 | 17.0 | 19.5 | 36.5 | 5.0 | | | |
| | | 1900 | 16.0 | 19.5 | 35.0 | 5.2 | | | |
| | | 2450 | 15.2 | 19.5 | 33.5 | 5.5 | | | |
| BG15A | 50-4000 | 3500 | 14.3 | 17.6 | 29.0 | 7.0 | 5.0 | 55 | SOT89 |
| | | 70 | 16.6 | 17.2 | 33.0 | 4.8 | | | |
| | | 120 | 17.0 | 17.2 | 33.0 | 4.9 | | | |
| | | 900 | 16.8 | 16.6 | 32.0 | 5.0 | | | |
| | | 1900 | 15.8 | 16.7 | 31.5 | 5.0 | | | |
| | 50-4000 | 2450 | 15.1 | 16.8 | 30.5 | 5.5 | 4.5 | 34 | SOT89 |
| | | 70 | 23.0 | 18.7 | 33.0 | 2.8 | | | |
| | | 500 | 21.5 | 18.3 | 33.2 | 2.9 | | | |
| | | 900 | 21.2 | 17.8 | 32.7 | 2.9 | | | |
| | | 1900 | 19.2 | 17.4 | 31.2 | 2.9 | | | |
| 50-4000 | 2140 | 18.7 | 17.1 | 30.5 | 2.9 | 5.0 | 55 | SOT89 | |
| | 2450 | 18.0 | 16.7 | 29.6 | 3.1 | | | | |
| | 3500 | 16.6 | 15.3 | 28.0 | 3.3 | | | | |
| | 70 | 22.2 | 14.5 | 25.3 | 2.6 | | | | |
| | 500 | 20.7 | 14.6 | 25.5 | 2.8 | | | | |
| 50-4000 | 900 | 20.6 | 13.9 | 25.1 | 2.8 | 4.5 | 34 | SOT89 | |
| | 1900 | 18.8 | 14.4 | 25.3 | 2.8 | | | | |
| | 2140 | 18.3 | 14.5 | 25.2 | 2.8 | | | | |
| | 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 | | | | |
| | | 400 | 19.0 | 15.0 | 32.5 | | | | |
| 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 | 15.1 | 18.6 | 42.4 | 4.2 | 4.5 | 79 | SOT89 |
| | | 140 | 15.1 | 19.3 | 42.0 | 4.3 | | | |
| | | 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 | 5.1 | 4.5 | 54 | SOT89 |
| | | 140 | 20.2 | 23.0 | 37.5 | 5.2 | | | |
| | | 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 | | | |
| BMT333 | 1800~2700 | 1800 | 29.7 | 32.9 | 45.1 | 23dBm | 5.9 | 5.0 | 550 | QFN |
| | | 2350 | 27.4 | 34.1 | 50.0 | | 5.3 | | | |
| | | 2550 | 26.2 | 33.3 | 48.3 | | 5.0 | | | |
| | | 2650 | 25.5 | 33.5 | 48.2 | | 5.1 | | | |
| BMT352 | 3000-4000 | 3400 | 20.8 | 31.4 | 47.0 | 17dBm | 5.1 | 5.0 | 356 | QFN |
| | | 3500 | 20.7 | 31.5 | 45.0 | | 5.1 | | | |
| | | 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 | | | |

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 |
|-----------------------|-----------|-------------|---------|----------|-----------------|---------|--------|---------|--------|
| BL011 | 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 | | | | |
| | | | | | | | | | |
| BL022 | 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 | | | | |
| BL081 | 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 | | | | |
| BL082 | 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 | | | | |
| 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 | | | | |
| BLB01 | 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 | | | | |
| BLB02 | 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 | |
|------------------------|--|-------------|----------|-----------|-------------|-----------------|------------|---------|-----------|--------|
| BD0926 | 700-1000 Cellular,GSM 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 | | | | | |
| BD1926 | 1700-2300 PCS, 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 | | | | | |
| BD2326 | 1900-2500 PCS, WCDMA, WiBro, TD- 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 | | | | | |
| BD2626 | 2400-2900, WCDMA,WiBro, 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 |
|-----------------------|---------------|---------------|---------------------|----------|----------------|---------------|-------|-------------|---------|
| BM831 | 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 |
| BM851 | 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 |
|-------------------------|-------------|---------------------|-----------------------|----------------------|--------------------------|-------------------|-------|---------|--------|---------|
| BVA303 | 30-4000 | 21.0 | 16.0 | 30.0 | 31.5 / 0.5 | Serial/Parallel | 3.0 | 54 | 2.9 | QFN 4x4 |
| BVA304 | 30-4000 | 12.3 | 19.3 | 31.0 | 31.5/0.5 | Serial/Parallel | 3.3 | 26 | 3.6 | QFN 4x4 |
| BVA305 | 40-4000 | 14.0 | 14.8 | 29.0 | 31.5 / 0.5 | Serial/Parallel | 3.0 | 54 | 4.1 | QFN 4x4 |
| BVA518 | 5-4000 | 19.1 | 18.6 | 32.2 | 31.5 / 0.5 | Serial/Parallel | 5.0 | 73 | 5.8 | QFN 4x4 |
| BVA2140 | 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 |
| BVA3143 | 3.3-3.8 | 40.0 | 26.5 | 41.5 | 31.75/0.25 | Serial/Parallel | 5.0 | 306 | 3.9 | LGA 6x6 |
| BVA3144 | 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) |
|------------------------|---------|------------|--------------------|-----------------------|--------------------------|----------------------------|---------------|----------------|
| BSW841 | 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) | |
|-------------------------|---------|------------|--------------------|--------------------------|------------------|---------------|----------------|--------------------|---------------------------|---------------------------|
| BSW6321 | 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 | | | | | | |
| BSW6421 | 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 | | | | | | |