

DC-8.0 GHz InGaP HBT, MMIC or Packaged, Matched Gain Block Amplifier



May 2006 - Rev 23-May-06

CGB7017-SC (-BD)
RoHS

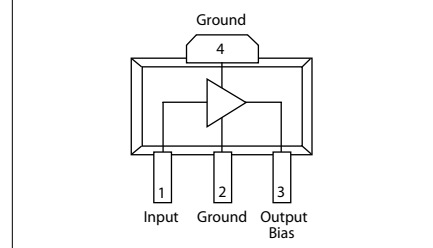
Features

- ✕ Low Operating Voltage: 5V
- ✕ 33.8 dBm Output IP3 @ 850 MHz
- ✕ 3.3 dB Noise Figure @ 850 MHz
- ✕ 23.1 dB Gain @ 850 MHz, 19.5 dB @ 6 GHz
- ✕ 18.2 dBm P1dB @ 850 MHz
- ✕ Low Performance Variation Over Temperature
- ✕ Low Cost: Die Form or SOT-89 Package
- ✕ 100% DC On-Wafer Testing
- ✕ ESD Protection on All Die: >1000V HBM
- ✕ Low Thermal Resistance: <100°C/Watt

Applications

- ✕ PA Driver Amp, IF Amp, LO Buffer Amp
- ✕ Cellular, PCS, GSM, UMTS
- ✕ Wireless Data and SATCOM
- ✕ Transmit and Receive Functions
- ✕ CATV

Functional Block Diagram (SOT-89)



Absolute Maximum Ratings

| | |
|-----------------------------|----------------|
| Max Device Voltage | +6.0 V |
| Max Device Current | 130 mA |
| Max Device Dissipated Power | 0.65 W |
| RF Input Power | +17 dBm |
| Storage Temperature | -55°C to 150°C |
| Junction Temperature | 150°C |
| Operating Temperature | -40°C to +85°C |
| Thermal Resistance | 85° C/W |
| EDS (HBM) | 1000 V |

Operation of this device above any of these parameters may cause permanent damage.

Description

The CGB7017-SC (-BD) is a Darlington Configured, high dynamic range, utility gain block amplifier. Designed for applications operating within the DC to 8.0 GHz frequency range, Mimix's broadband, cascadable, gain block amplifiers are ideal solutions for transmit, receive and IF applications.

These MMIC amplifiers are available in bare die form or an industry standard SOT-89 package. Mimix's InGaP HBT technology and an industry low thermal resistance offers a

thermally robust and reliable gain block solution.

The InGaP HBT die have extra pads to enable thorough DC testing. This unique test capability and the inclusion of ESD protection on all die, significantly enhances the quality, reliability and ruggedness of these products.

With a single bypass capacitor, optional RF choke and two DC blocking capacitors, this gain block amplifier offers significant ease of use in a broad range of applications.

Electrical Characteristics

Unless otherwise specified, the following specifications are guaranteed at room temperature in a Mimix test fixture.

| Parameter | Temperature (°C) | 850 MHz | | | 1950 MHz | | | 2400 MHz | | | 3500 MHz | | | 6000 MHz | | | Units |
|--|------------------|---------|------|------|----------|------|------|----------|------|------|----------|------|------|----------|------|------|-------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| Small Signal Gain | +25 | 22.1 | 23.1 | 24.1 | 21.0 | 22.0 | 23.0 | 20.8 | 21.8 | 22.8 | | 21.0 | | | 19.5 | | dB |
| | -40 to +85 | 22.0 | 23.1 | 24.2 | 20.9 | 22.0 | 23.1 | 20.7 | 21.8 | 22.9 | | 21.0 | | | 19.5 | | dB |
| Output P1dB | +25 | 17.2 | 18.2 | | 16.7 | 17.7 | | 16.7 | 17.7 | | | 17.0 | | | 12.0 | | dBm |
| | -40 to +85 | 16.9 | 18.2 | | 16.3 | 17.7 | | 16.3 | 17.7 | | | 17.0 | | | 12.0 | | dBm |
| Output IP3 | +25 | 32.3 | 33.8 | | 31.4 | 32.9 | | 30.2 | 31.7 | | | 27.6 | | | 20.3 | | dBm |
| | -40 to +85 | 31.8 | 33.8 | | 30.9 | 32.9 | | 29.7 | 31.7 | | | 27.6 | | | 20.3 | | dBm |
| Noise Figure | +25 | | 3.3 | 4.1 | | 3.6 | 4.4 | | 3.7 | 4.5 | | 3.8 | | | 4.6 | | dB |
| | -40 to +85 | | 3.3 | 4.5 | | 3.6 | 4.8 | | 3.7 | 4.9 | | 3.8 | | | 4.6 | | dB |
| Operating Current | +25 | 65 | 70 | 75 | 65 | 70 | 75 | 65 | 70 | 75 | | 70 | | | 70 | | mA |
| | -40 to +85 | 59 | 70 | 79 | 59 | 70 | 79 | 59 | 70 | 79 | | 70 | | | 70 | | mA |
| Input Return Loss | +25 | 11 | 15 | | 11 | 16 | | 11 | 15 | | | 11 | | | 7.5 | | dB |
| | -40 to +85 | 10 | 15 | | 10 | 16 | | 10 | 15 | | | 11 | | | 7.5 | | dB |
| Output Return Loss | +25 | 16 | 23 | | 11 | 16 | | 11 | 16 | | | 16 | | | 13 | | dB |
| | -40 to +85 | 15 | 23 | | 10 | 16 | | 10 | 16 | | | 16 | | | 13 | | dB |
| Pout @ -45 dBc, ACP IS-95, 9 Forward Channels | +25 | | 12 | | | 12 | | | | | | | | | | | dBm |
| | -40 to +85 | | 12 | | | 12 | | | | | | | | | | | dBm |

Notes: 1. Test Conditions in Mimix eval board, Vs = 5 V, Id = 70 mA Typ., Rbias = 10 Ω, Zs = Zl = 50 Ω, OIP3 tone spacing = 1 MHz, Pout per tone = 6 dBm.
2. Values reflect performance in recommended application circuit.

Mimix Broadband, Inc., 10795 Rockley Rd., Houston, Texas 77099
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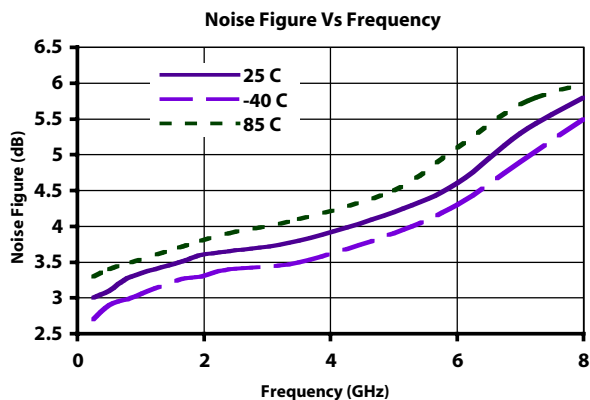
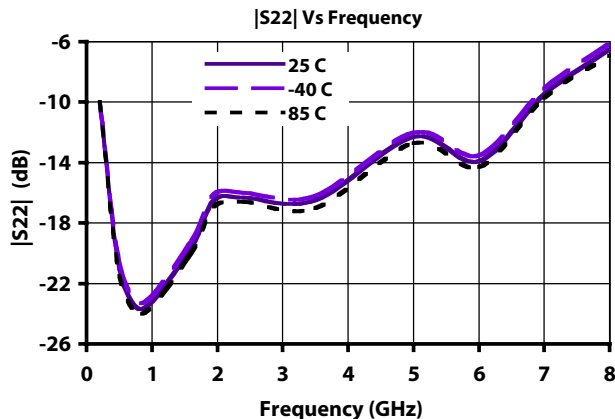
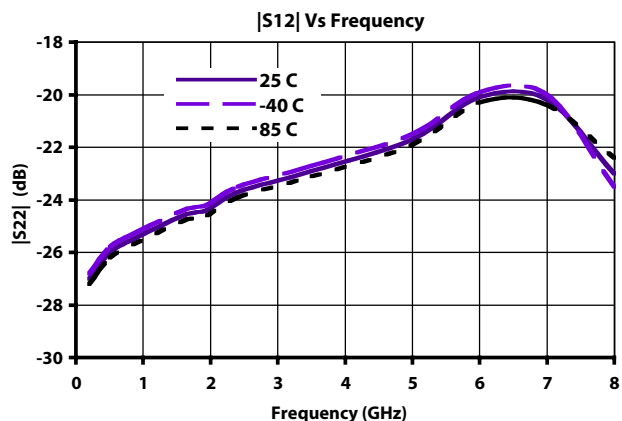
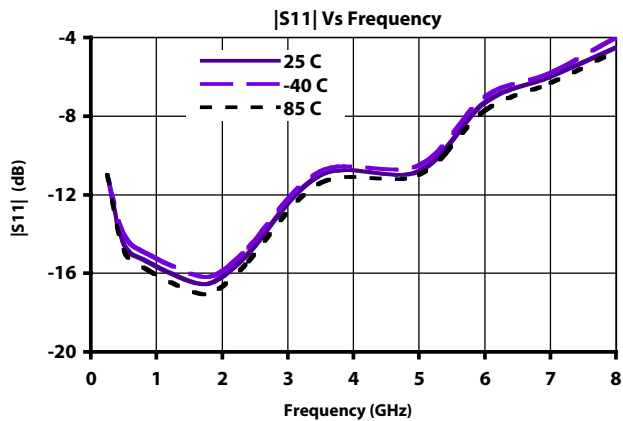
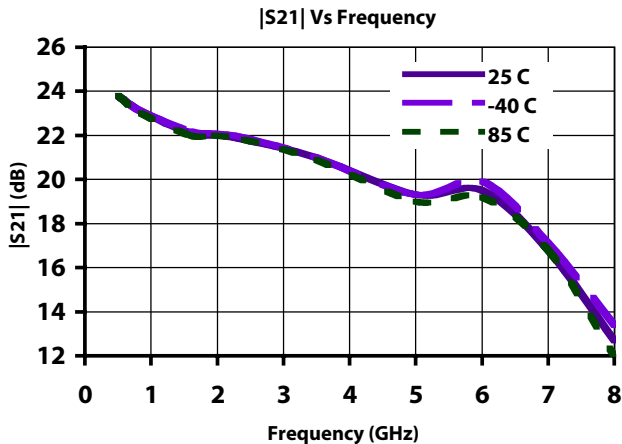
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Typical S-Parameter and Noise Performance



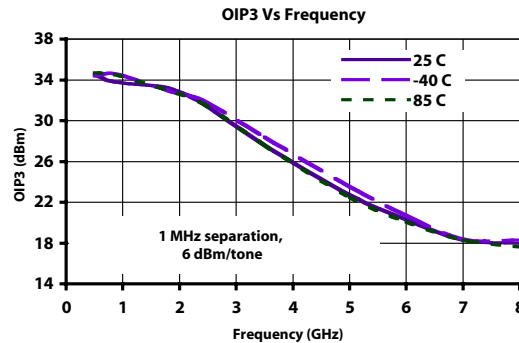
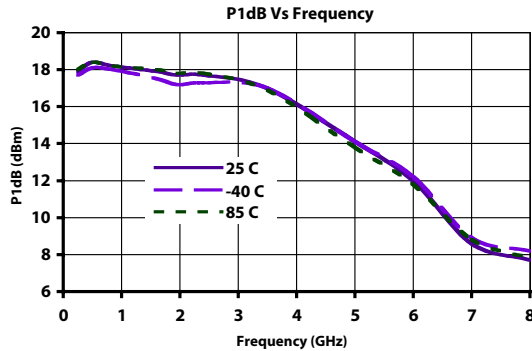
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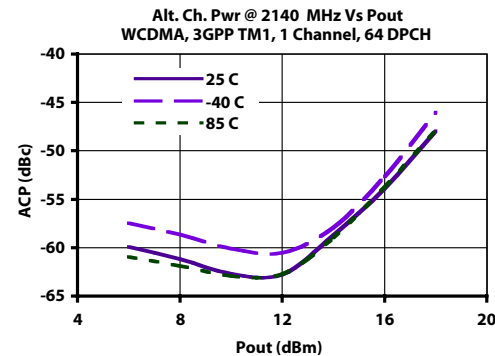
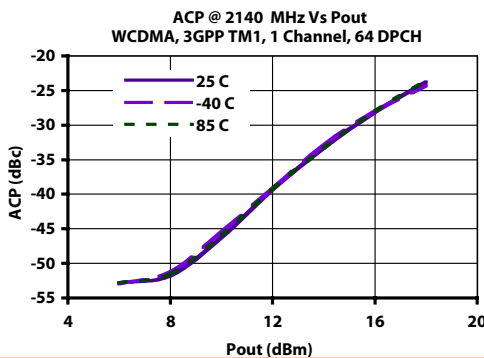
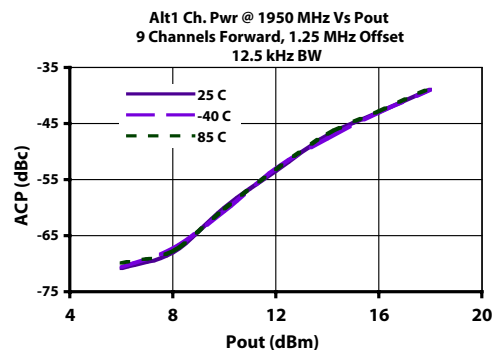
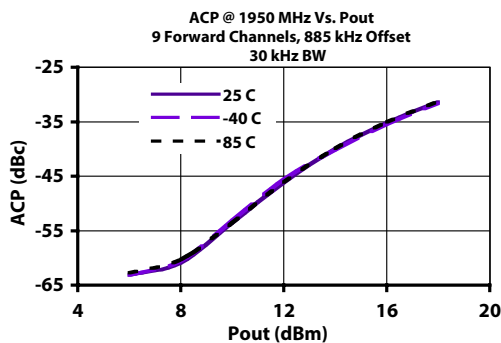
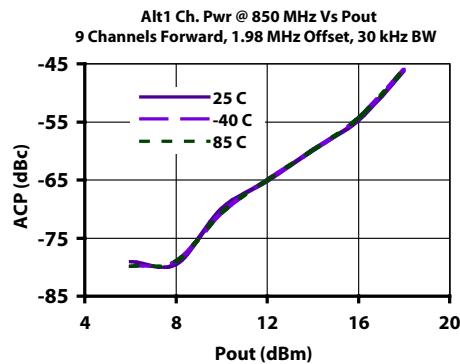
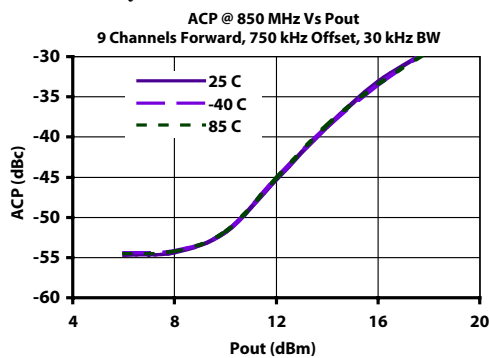
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Typical Power and Linearity Performance



Linearity Performance - Base Station ACP - IS-95



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Typical Scattering Parameters (Vd = +4.5V, Icc = 74 mA, T = 23°C, device in a 50 ohm system)

| Frequency (MHz) | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|--------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| | (Mag) | (Ang) | (Mag) | (Ang) | (Mag) | (Ang) | (Mag) | (Ang) |
| 100 | 0.039 | -164 | 15.58 | 175 | 0.054 | -1 | 0.017 | -130 |
| 200 | 0.043 | -152 | 15.51 | 170 | 0.055 | -2 | 0.026 | -124 |
| 300 | 0.051 | -144 | 15.45 | 164 | 0.055 | -4 | 0.036 | -120 |
| 400 | 0.058 | -140 | 15.37 | 159 | 0.055 | -5 | 0.046 | -119 |
| 500 | 0.066 | -136 | 15.27 | 154 | 0.055 | -6 | 0.055 | -119 |
| 600 | 0.075 | -134 | 15.17 | 149 | 0.055 | -7 | 0.065 | -120 |
| 700 | 0.084 | -134 | 15.06 | 144 | 0.055 | -8 | 0.074 | -122 |
| 800 | 0.094 | -134 | 14.93 | 139 | 0.056 | -10 | 0.083 | -123 |
| 900 | 0.103 | -134 | 14.81 | 134 | 0.056 | -11 | 0.092 | -124 |
| 1000 | 0.113 | -134 | 14.68 | 130 | 0.057 | -12 | 0.101 | -126 |
| 1100 | 0.122 | -135 | 14.54 | 125 | 0.057 | -14 | 0.109 | -128 |
| 1200 | 0.131 | -136 | 14.40 | 120 | 0.057 | -15 | 0.116 | -130 |
| 1300 | 0.140 | -137 | 14.25 | 115 | 0.058 | -16 | 0.123 | -132 |
| 1400 | 0.148 | -139 | 14.08 | 110 | 0.059 | -18 | 0.130 | -134 |
| 1500 | 0.156 | -140 | 13.93 | 106 | 0.059 | -19 | 0.137 | -136 |
| 1600 | 0.164 | -142 | 13.77 | 101 | 0.060 | -21 | 0.143 | -138 |
| 1700 | 0.172 | -144 | 13.61 | 96 | 0.060 | -22 | 0.149 | -140 |
| 1800 | 0.181 | -145 | 13.44 | 92 | 0.061 | -24 | 0.155 | -142 |
| 1900 | 0.190 | -147 | 13.28 | 87 | 0.062 | -25 | 0.160 | -144 |
| 2000 | 0.197 | -149 | 13.12 | 83 | 0.062 | -27 | 0.166 | -146 |
| 2100 | 0.204 | -151 | 12.96 | 78 | 0.063 | -29 | 0.171 | -147 |
| 2200 | 0.211 | -153 | 12.80 | 74 | 0.064 | -30 | 0.177 | -149 |
| 2300 | 0.218 | -155 | 12.64 | 69 | 0.065 | -32 | 0.180 | -151 |
| 2400 | 0.225 | -157 | 12.49 | 65 | 0.065 | -34 | 0.185 | -153 |
| 2500 | 0.231 | -159 | 12.33 | 60 | 0.066 | -36 | 0.190 | -154 |
| 2600 | 0.237 | -162 | 12.19 | 56 | 0.067 | -37 | 0.194 | -156 |
| 2700 | 0.243 | -164 | 12.04 | 52 | 0.068 | -39 | 0.199 | -158 |
| 2800 | 0.248 | -167 | 11.89 | 47 | 0.069 | -41 | 0.203 | -160 |
| 2900 | 0.254 | -169 | 11.75 | 43 | 0.070 | -43 | 0.206 | -162 |
| 3000 | 0.260 | -171 | 11.61 | 39 | 0.070 | -45 | 0.211 | -163 |
| 3100 | 0.265 | -173 | 11.49 | 35 | 0.072 | -47 | 0.216 | -165 |
| 3200 | 0.269 | -176 | 11.38 | 31 | 0.073 | -49 | 0.222 | -167 |
| 3300 | 0.274 | -179 | 11.27 | 26 | 0.074 | -51 | 0.227 | -169 |
| 3400 | 0.279 | 178 | 11.17 | 22 | 0.075 | -53 | 0.231 | -171 |
| 3500 | 0.285 | 175 | 11.07 | 18 | 0.076 | -55 | 0.236 | -173 |
| 3600 | 0.289 | 173 | 10.97 | 14 | 0.077 | -57 | 0.242 | -175 |
| 3700 | 0.293 | 169 | 10.89 | 10 | 0.078 | -59 | 0.248 | -178 |
| 3800 | 0.296 | 166 | 10.81 | 6 | 0.079 | -61 | 0.254 | 179 |
| 3900 | 0.299 | 162 | 10.73 | 1 | 0.080 | -64 | 0.259 | 176 |
| 4000 | 0.303 | 159 | 10.66 | -3 | 0.082 | -66 | 0.264 | 174 |
| 4100 | 0.306 | 155 | 10.58 | -7 | 0.083 | -68 | 0.268 | 171 |
| 4200 | 0.307 | 151 | 10.52 | -11 | 0.084 | -70 | 0.274 | 168 |
| 4300 | 0.308 | 147 | 10.46 | -15 | 0.086 | -73 | 0.279 | 164 |
| 4400 | 0.309 | 142 | 10.42 | -20 | 0.087 | -75 | 0.283 | 160 |
| 4500 | 0.310 | 138 | 10.36 | -24 | 0.089 | -78 | 0.287 | 157 |
| 4600 | 0.312 | 133 | 10.32 | -28 | 0.090 | -80 | 0.292 | 153 |
| 4700 | 0.313 | 128 | 10.28 | -33 | 0.091 | -83 | 0.297 | 149 |
| 4800 | 0.312 | 122 | 10.24 | -37 | 0.093 | -86 | 0.302 | 145 |
| 4900 | 0.313 | 117 | 10.22 | -41 | 0.095 | -89 | 0.307 | 140 |
| 5000 | 0.314 | 110 | 10.19 | -46 | 0.096 | -91 | 0.311 | 135 |

Continues Next Page. S-Parameter Data Files are available on-line at: www.mimixbroadband.com

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|--------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| | (Mag) | (Ang) | (Mag) | (Ang) | (Mag) | (Ang) | (Mag) | (Ang) |
| 5100 | 0.315 | 104 | 10.15 | -51 | 0.098 | -94 | 0.314 | 130 |
| 5200 | 0.316 | 97 | 10.13 | -55 | 0.100 | -97 | 0.319 | 125 |
| 5300 | 0.317 | 91 | 10.11 | -60 | 0.101 | -100 | 0.324 | 120 |
| 5400 | 0.319 | 83 | 10.08 | -65 | 0.103 | -104 | 0.330 | 114 |
| 5500 | 0.323 | 75 | 10.05 | -69 | 0.105 | -107 | 0.335 | 108 |
| 5600 | 0.329 | 67 | 10.03 | -74 | 0.106 | -110 | 0.341 | 101 |
| 5700 | 0.337 | 59 | 9.99 | -79 | 0.108 | -114 | 0.347 | 95 |
| 5800 | 0.346 | 51 | 9.96 | -84 | 0.109 | -117 | 0.354 | 88 |
| 5900 | 0.355 | 42 | 9.90 | -90 | 0.110 | -121 | 0.361 | 81 |
| 6000 | 0.367 | 33 | 9.84 | -95 | 0.112 | -125 | 0.369 | 73 |
| 6100 | 0.384 | 24 | 9.76 | -100 | 0.113 | -129 | 0.378 | 66 |
| 6200 | 0.401 | 15 | 9.66 | -106 | 0.113 | -133 | 0.386 | 58 |
| 6300 | 0.420 | 7 | 9.56 | -111 | 0.114 | -137 | 0.397 | 51 |
| 6400 | 0.441 | -2 | 9.43 | -117 | 0.115 | -141 | 0.408 | 43 |
| 6500 | 0.463 | -10 | 9.29 | -123 | 0.115 | -145 | 0.421 | 35 |
| 6600 | 0.487 | -19 | 9.13 | -128 | 0.114 | -149 | 0.435 | 27 |
| 6700 | 0.513 | -26 | 8.93 | -134 | 0.114 | -153 | 0.448 | 19 |
| 6800 | 0.537 | -34 | 8.73 | -140 | 0.113 | -158 | 0.462 | 12 |
| 6900 | 0.561 | -42 | 8.50 | -145 | 0.112 | -162 | 0.477 | 4 |
| 7000 | 0.586 | -49 | 8.27 | -151 | 0.110 | -166 | 0.492 | -3 |
| 7100 | 0.609 | -56 | 8.00 | -157 | 0.109 | -170 | 0.505 | -11 |
| 7200 | 0.632 | -63 | 7.72 | -162 | 0.106 | -174 | 0.518 | -18 |
| 7300 | 0.652 | -70 | 7.44 | -168 | 0.104 | -178 | 0.531 | -25 |
| 7400 | 0.670 | -76 | 7.17 | -173 | 0.102 | 178 | 0.542 | -31 |
| 7500 | 0.688 | -82 | 6.88 | -178 | 0.099 | 174 | 0.554 | -38 |
| 7600 | 0.703 | -88 | 6.59 | 176 | 0.096 | 170 | 0.565 | -44 |
| 7700 | 0.718 | -94 | 6.31 | 171 | 0.094 | 167 | 0.575 | -49 |
| 7800 | 0.730 | -99 | 6.02 | 166 | 0.091 | 163 | 0.584 | -55 |
| 7900 | 0.741 | -104 | 5.76 | 162 | 0.089 | 160 | 0.592 | -60 |
| 8000 | 0.749 | -109 | 5.50 | 157 | 0.086 | 157 | 0.599 | -65 |
| 8100 | 0.757 | -114 | 5.24 | 152 | 0.083 | 153 | 0.607 | -70 |
| 8200 | 0.766 | -119 | 5.00 | 148 | 0.081 | 151 | 0.613 | -75 |
| 8300 | 0.772 | -123 | 4.75 | 144 | 0.078 | 148 | 0.619 | -80 |
| 8400 | 0.776 | -128 | 4.53 | 139 | 0.076 | 145 | 0.625 | -84 |
| 8500 | 0.779 | -132 | 4.33 | 135 | 0.074 | 142 | 0.629 | -88 |
| 8600 | 0.782 | -136 | 4.13 | 131 | 0.072 | 139 | 0.633 | -92 |
| 8700 | 0.783 | -140 | 3.93 | 127 | 0.069 | 137 | 0.638 | -95 |
| 8800 | 0.786 | -144 | 3.75 | 123 | 0.067 | 134 | 0.642 | -99 |
| 8900 | 0.787 | -147 | 3.58 | 120 | 0.065 | 132 | 0.644 | -103 |
| 9000 | 0.786 | -151 | 3.42 | 116 | 0.064 | 130 | 0.647 | -106 |
| 9100 | 0.785 | -155 | 3.27 | 112 | 0.062 | 128 | 0.650 | -109 |
| 9200 | 0.784 | -158 | 3.13 | 109 | 0.060 | 126 | 0.652 | -112 |
| 9300 | 0.783 | -162 | 2.99 | 105 | 0.059 | 123 | 0.654 | -115 |
| 9400 | 0.781 | -165 | 2.86 | 102 | 0.057 | 121 | 0.656 | -118 |
| 9500 | 0.777 | -168 | 2.74 | 98 | 0.056 | 119 | 0.658 | -121 |
| 9600 | 0.773 | -171 | 2.62 | 95 | 0.055 | 117 | 0.660 | -124 |
| 9700 | 0.769 | -175 | 2.51 | 91 | 0.054 | 115 | 0.661 | -127 |
| 9800 | 0.765 | -178 | 2.41 | 88 | 0.053 | 113 | 0.663 | -129 |
| 9900 | 0.762 | 179 | 2.31 | 85 | 0.052 | 112 | 0.664 | -132 |
| 10000 | 0.756 | 176 | 2.21 | 81 | 0.051 | 110 | 0.665 | -134 |

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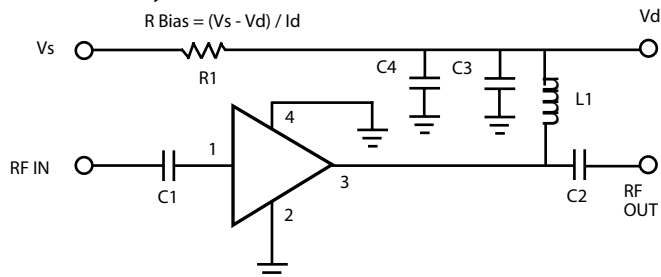
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Application Circuit

Note: This schematic represents the topology of the application circuit recommended by Mimix.

| Supply Voltage (V) | 5V | 7V | 8V | 10V |
|--------------------------------------|-----|-----|-----|-----|
| Rbias (R1 Description: 1206 1/4W 1%) | 10Ω | 38Ω | — | — |
| Rbias (R1 Description: 1210 1/2W 1%) | — | — | 52Ω | 81Ω |

Note: Rbias provides DC bias stability over temperature.

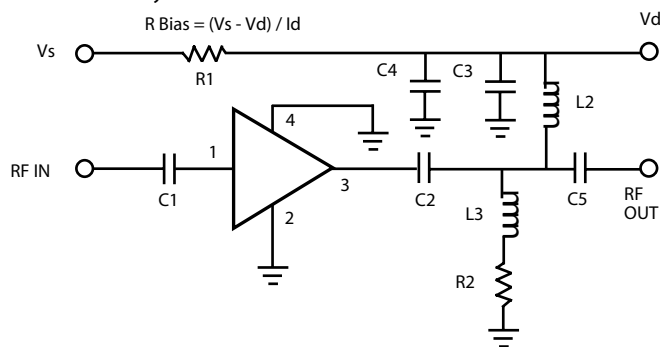


Application Circuit for Flat Gain @ 2 to 6 GHz

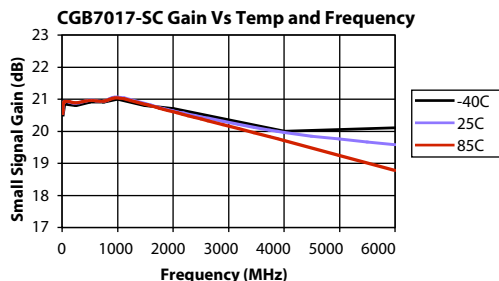
Note: This schematic represents the topology of the application circuit recommended by Mimix.

| Supply Voltage (V) | 5V | 7V | 8V | 10V |
|--------------------------------------|-----|-----|-----|-----|
| Rbias (R1 Description: 1206 1/4W 1%) | 10Ω | 38Ω | — | — |
| Rbias (R1 Description: 1210 1/2W 1%) | — | — | 52Ω | 81Ω |

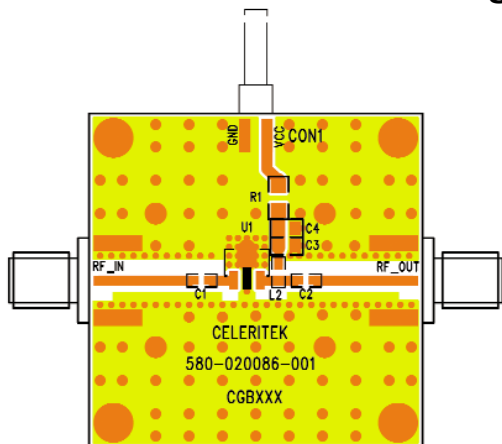
Note: Rbias provides DC bias stability over temperature.



Typical Gain Performance



Evaluation Board - SC Package (SOT-89)



| Ref Designator | Value | Description | Size |
|----------------|-------------------------|-----------------------|------|
| C1, C2, C3 | 1000 pF | MCH185A101JK | 0805 |
| C4 | 1.0 μF | VITR 1.0 μF 25V CER | 0805 |
| L1 | 56 nH | CAP 0805 X7R 10% | 0603 |
| L1 | 470 nH | Coilcraft 0603 CS 10% | 0805 |
| L3 | 6.8 nH | Coilcraft 0603 CS 10% | 0603 |
| R1 | R Bias = (Vs - Vd) / Id | 1206 / 1210 | |
| R2 | 75 Ω | 1206 1/4W | 1206 |
| C4 | DNP (Do Not Place) | | N/A |

Note: Contact factory for matching recommendations if flat gain is required from 2 to 6 GHz.

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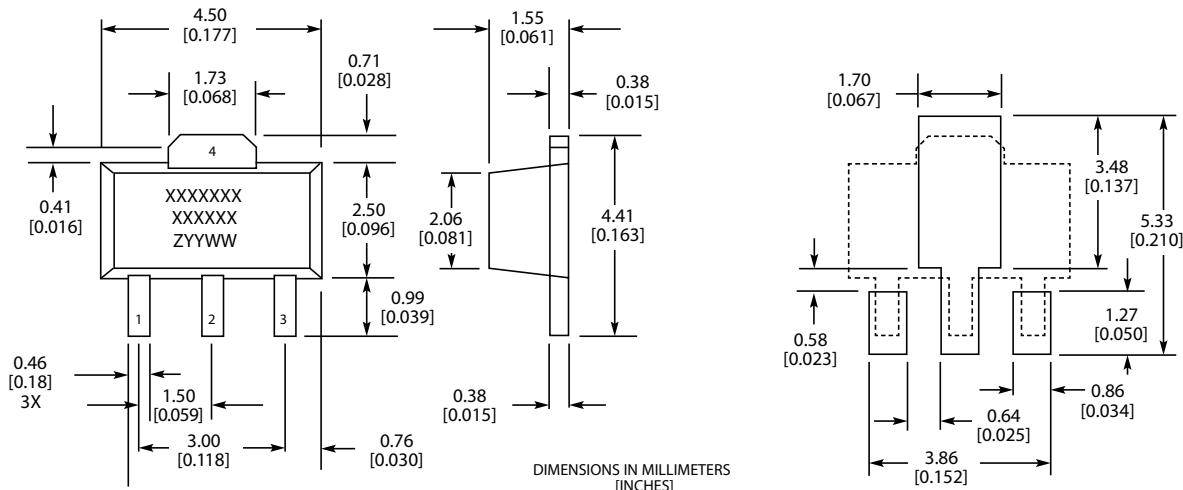
DC-8.0 GHz InGaP HBT, MMIC or Packaged, Matched Gain Block Amplifier



May 2006 - Rev 23-May-06

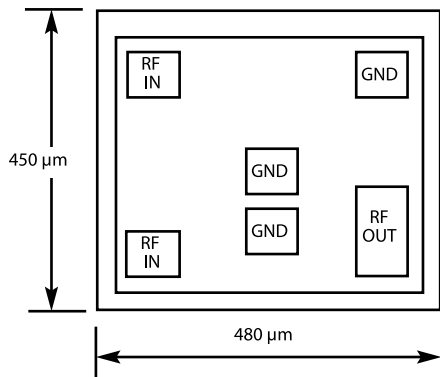
CGB7017-SC (-BD)
RoHS

Physical Dimensions - SC Package (SOT-89)



MARKINGS:
 XXXXXXX = MIMIX MODEL NO.
 XXXXXX = WAFER LOT NO.
 ZYYWW = DATE CODE (YR/WEEK)
 FIRST LETTER COUNTRY OF ORIGIN IF OTHER THAN USA

Physical Dimensions - BD (Bare Die)



Notes:
 RF OUT bonding pad is 75 μm x 155 μm.
 All other pads are 75 μm x 75 μm.



Ordering Information

| Part Number for Ordering | Description |
|--------------------------|---|
| CGB7017-BD | Bare die in GelPak |
| CGB7017-SC-0G00 | Matte Tin plated RoHS compliant SOT-89 surface mount package in bulk quantity |
| CGB7017-SC-0G0T | Matte Tin plated RoHS compliant SOT-89 surface mount package in tape and reel |
| CGB7017-SP-0G00 | Matte Tin plated RoHS compliant SOT-86 surface mount package in bulk quantity |
| CGB7017-SP-0G0T | Matte Tin plated RoHS compliant SOT-86 surface mount package in tape and reel |
| PB-CGB7017-SC-0000 | Evaluation Board for SOT-89 packaged device with SMA connectors |
| PB-CGB7017-SP-0000 | Evaluation Board for SOT-86 packaged device with SMA connectors |

We also offer the plastic packages with SnPb (Tin-Lead) or NiPdAu plating. Please contact your regional sales manager for more information regarding different plating types

Mimix Broadband, Inc., 10795 Rockley Rd., Houston, Texas 77099
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