September 2006 - Rev 01-Sep-06

Features

- 🗡 41.0 dBm Output IP3 @ 2140 MHz
- X 21.0 dB Gain @ 900 MHz
- 🗡 13.3 dB Gain @ 2140 MHz
- X 23.7 dBm P1dB @ 2140 MHz
- X Low Performance Variation Over Temperature
- X Low Cost: SOT-89 Package
- ✗ 100% DC On-Wafer Testing
- ★ ESD Protection on All Die: >2000V HBM
- X Low Thermal Resistance: <35°C/Watt
- X Low Volt Supply: 5V, Active Bias

Description

The CGB7289-SC is a single stage, high power, high dynamic range, utility gain block amplifier. Designed for applications operating within the DC to 2.5 GHz frequency range, Mimix's broadband, cascadable, gain block amplifier is an ideal solution for transmit, receive and IF applications.

This MMIC amplifier is available in 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.

This gain block amplifier offers significant ease of use in a broad range of applications. The combination of high gain, P1dB and high OIP3 at low current makes the CGB7289-SC an ideal transmit and receive solution when used in applications including cellular, PCS and 3G services operating from 0.8 to 2.2 GHz.

Functional Block Diagram (SOT-89)

Ground

Input

Absolute Maximum Ratings

Output Bias

Max Device Voltage	+6.0 V
Max Device Current	200 mA
Max Device Dissipated Power	1.2 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	35º C/W
EDS (HBM)	2000 V

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

Applications

- 🗙 PA Driver Amp, IF Amp, LO Buffer Amp
- X Cellular, PCS, GSM, UMTS, 3G
- X Wireless Data and SATCOM
- ✗ Transmit and Receive Functions
- X CATV

Electrical Characteristics (5V, Active Bias)

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

			900 MHz		1	960 MH2	<u>.</u>	2	140 MH		
Parameter	Temperature (°C)	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Small Signal Gain	+25	20.0	21.0	22.0	13.5	14.5	15.5	12.3	13.3	14.3	dB
	-40 to +85	19.7	21.0	22.3	13.2	14.5	15.8	12.0	13.3	14.6	dB
Output P1dB	+25	22.1	23.1		22.8	23.8		22.7	23.7		dBm
	-40 to +85	21.8	23.1		22.5	23.8		22.4	23.7		dBm
Output IP3	+25	37.0	38.5		39.0	40.5		39.5	41.0		dBm
	-40 to +85	36.5	38.5		38.5	40.5		39.0	41.0		dBm
Noise Figure	+25		4.0	4.8		4.9	5.7		5.5	6.3	dB
	-40 to +85		4.0	5.2		4.9	6.2		5.5	6.7	dB
Operating Current	+25	105	115	125	105	115	125	105	115	125	mA
	-40 to +85	100	115	130	100	115	130	100	115	130	mA
Input Return Loss	+25	12	18		11	16		11	15		dB
	-40 to +85	11	18		10	16		10	15		dB
Output Return Loss	+25	5.5	7.5		11.0	16.0		10.0	13.0		dB
	-40 to +85	5.0	7.5		10.0	16.0		9.5	13.0		dB
Pout @ -45 dBc, ACP	+25		16.5			17.5					dBm
IS-95, 9 Forward Channels	-40 to +85		16.5			17.5					dBm

Notes: 1. Test Conditions in Mimix eval board, Vs = 5 V, Id = 115 mA Typ., Zs = ZI = 50Ω, OIP3 tone spacing = 1 MHz, Pout per tone = 11 dBm. 2. Values reflect performance in recommended application circuit.

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Mimix

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CGB7289-SC XRoHS

Electrical Characteristics (8V, Active Bias) Unless otherwise specified, the following specifications are guaranteed at room temperature in a Mimix test fixture.

		900 MHz		1960 MHz			2140 MH				
Parameter	Temperature (°C)	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Small Signal Gain	+25	20.0	21.0	22.0	13.7	14.7	15.7	12.5	13.5	14.5	dB
	-40 to +85	19.7	21.0	22.3	13.4	14.7	16.0	12.2	13.5	14.8	dB
Output P1dB	+25	22.3	23.3		23.0	24.0		23.0	24.0		dBm
	-40 to +85	22.0	23.3		22.7	24.0		22.7	24.0		dBm
Output IP3	+25	38.5	40.0		40.0	41.5		40.5	42.0		dBm
	-40 to +85	37.5	40.0		39.0	41.5		39.5	42.0		dBm
Noise Figure	+25		3.8	4.8		4.7	5.5		5.3	6.4	dB
	-40 to +85		3.8	5.3		4.7	6.0		5.3	6.5	dB
Operating Current	+25	110	120	130	110	120	130	110	120	130	mA
	-40 to +85	105	120	135	105	120	135	105	120	135	mA
Input Return Loss	+25	11	15		9.0	12		10	13		dB
	-40 to +85	10	15		8.5	12		9	13		dB
Output Return Loss	+25	5.5	7.5		11.0	15.0		9.0	12.0		dB
	-40 to +85	5.0	7.5		10.0	15.0		8.5	12.0		dB
Pout @ -45 dBc, ACP	+25		16.5			17.5					dBm
IS-95, 9 Forward Channels	-40 to +85		16.5			17.5					dBm

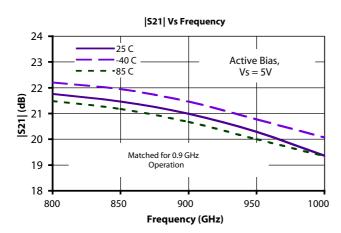
Notes: 1. Test Conditions in Mimix eval board, Vs = 8 V, Id = 120 mA Typ., Rbias = 27 Ω , Zs = Zl = 50 Ω , OIP3 tone spacing = 1 MHz, Pout per tone = 11 dBm. 2. Values reflect performance in recommended application circuit.

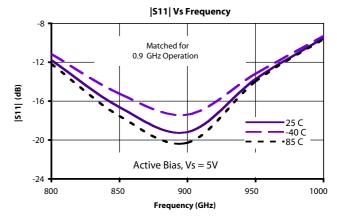
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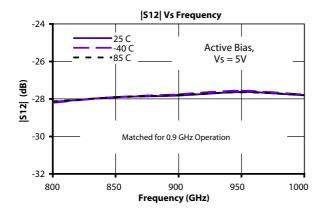


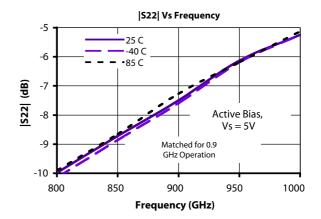
CGB7289-SC XRoHS

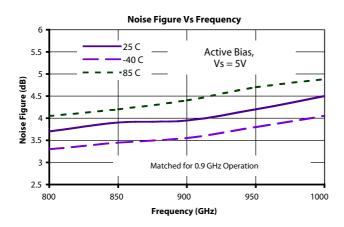
Typical S-Parameter and Noise Performance: 900 MHz, 5V (Matched for 0.9 GHz Operation)











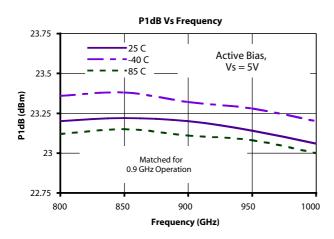
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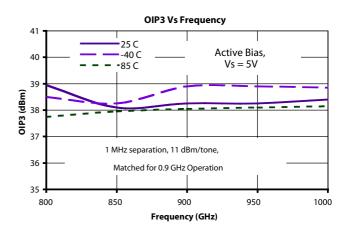
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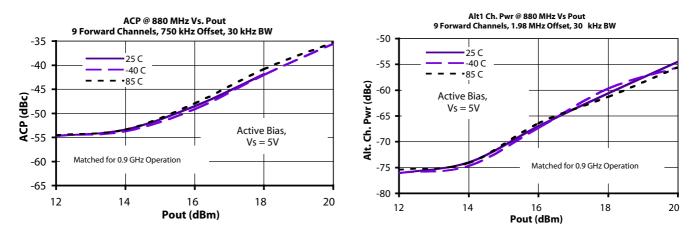


CGB7289-SC XRoHS

Typical S-Parameter and Noise Performance: 900 MHz, 5V (Matched for 0.9 GHz Operation)







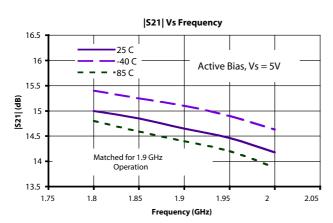
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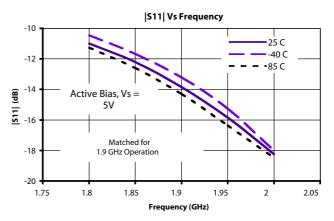
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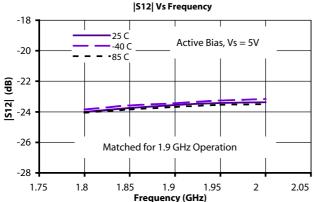


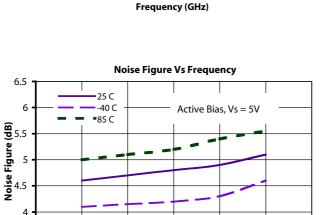
CGB7289-SC RoHS

Typical S-Parameter and Noise Performance: 1960 MHz, 5V (Matched for 1.9 GHz Operation)









Matched for 1.9 GHz Operation

19 Frequency (GHz)

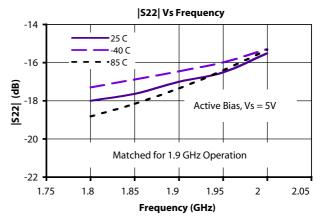
1.85

1 95

2

3.5 1.75

1.8



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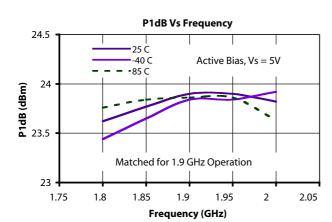
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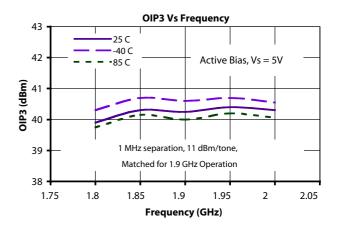
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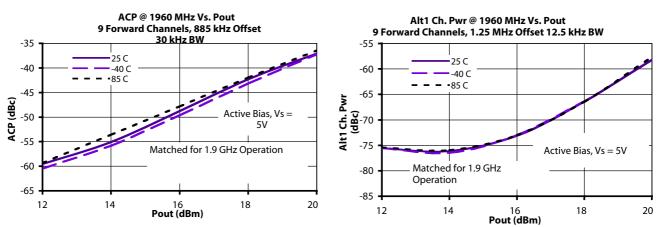


CGB7289-SC XRoHS

Typical S-Parameter and Noise Performance: 1960 MHz, 5V (Matched for 1.9 GHz Operation)





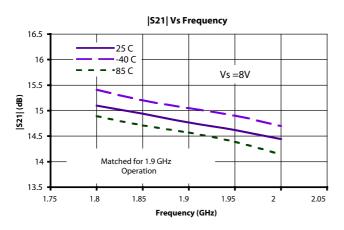


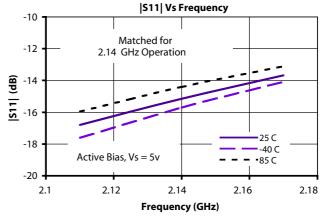
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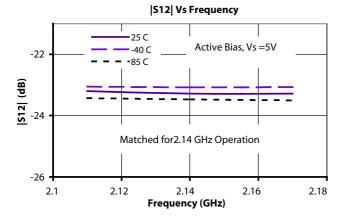
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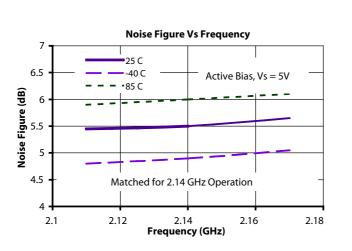


Typical S-Parameter and Noise Performance: 2140 MHz, 5V (Matched for 2.14 GHz Operation)









-10 25 C -40 C Active Bias, Vs = 5V -11 •85 C **g** -12 **77** -13 -14 Matched for 2.14 GHz Operation -15 2.1 2.12 2.18 2.14 2.16 Frequency (GHz)

|S22| Vs Frequency

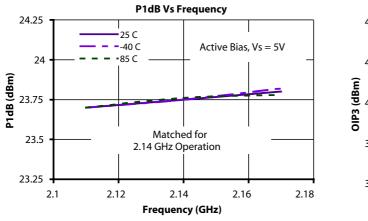
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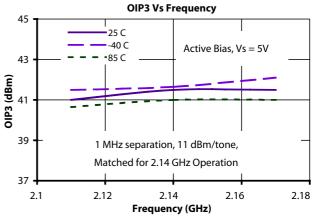
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Typical S-Parameter and Noise Performance: 2140 MHz, 5V (Matched for 2.14 GHz Operation)





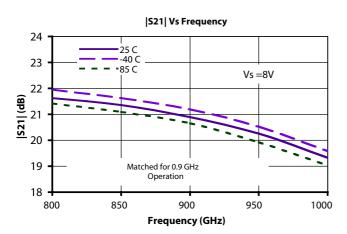
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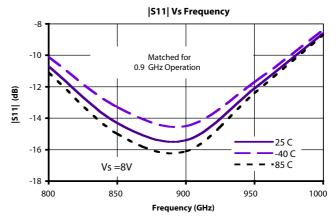
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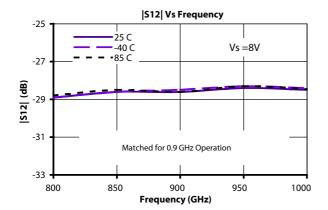


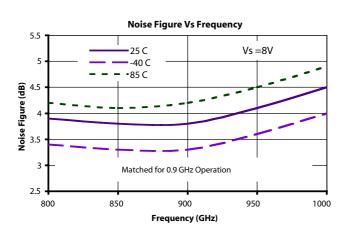
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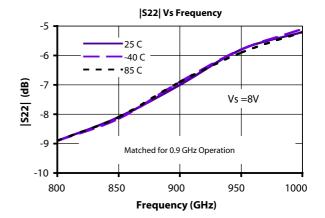
Typical S-Parameter and Noise Performance: 900 MHz, 8V (Matched for 0.9 GHz Operation)











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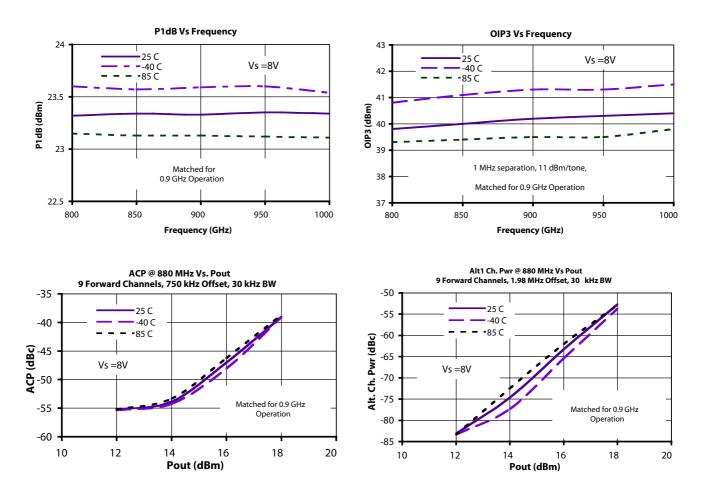
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CGB7289-SC XRoHS

Typical S-Parameter and Noise Performance: 900 MHz, 8V (Matched for 0.9 GHz Operation)



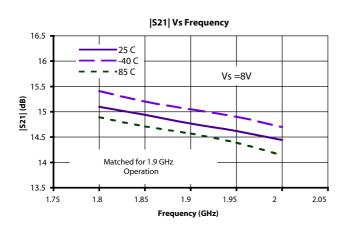
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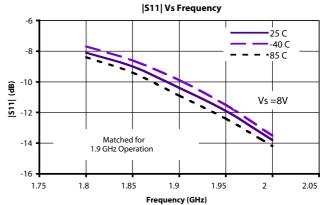
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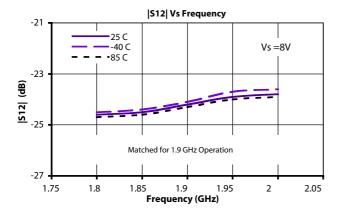


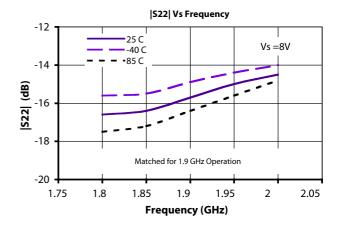
CGB7289-SC XRoHS

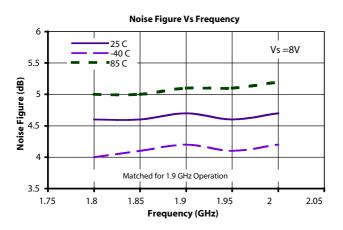
Typical S-Parameter and Noise Performance: 1960 MHz, 8V (Matched for 1.9 GHz Operation)











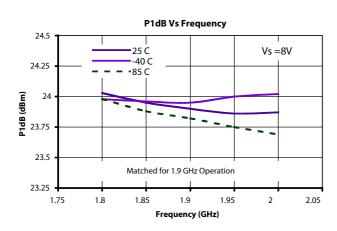
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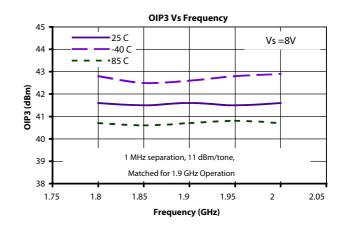
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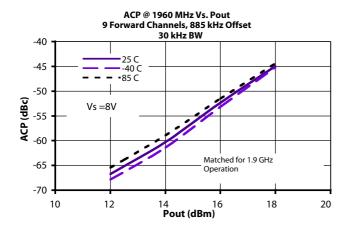


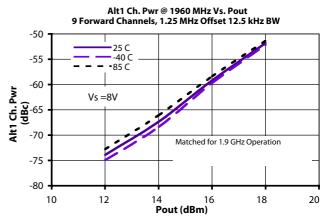
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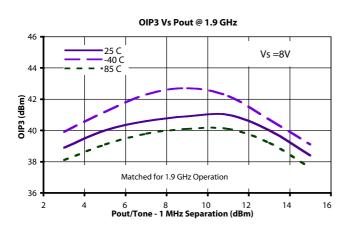
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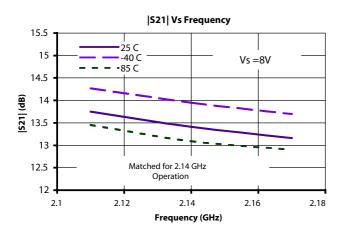
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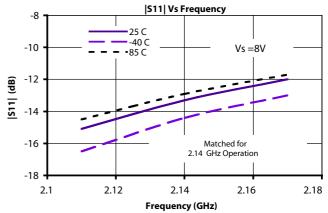
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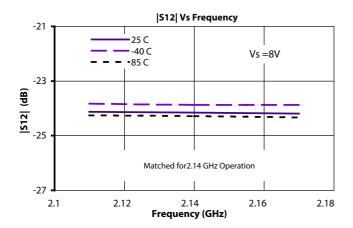


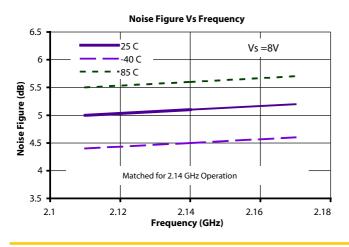
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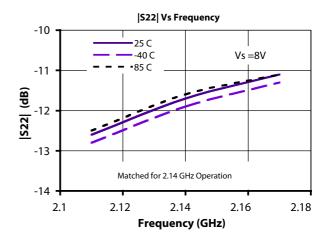
Typical S-Parameter and Noise Performance: 2140 MHz, 8V (Matched for 2.14 GHz Operation)











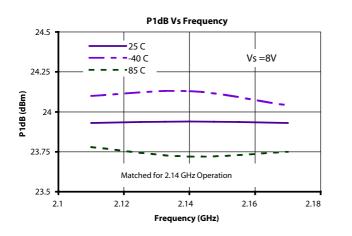
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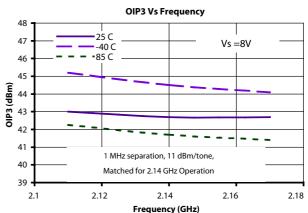


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CGB7289-SC XRoHS

Typical S-Parameter and Noise Performance: 2140 MHz, 8V (Matched for 2.14 GHz Operation)





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CGB7289-SC XRoHS

Typical Scattering Parameters (Vd = +4.76V, lcc = 118 mA, T = 23°C, device in a 50 ohm system)

Frequency	(S ₁₁	(S ₂₁	(14)	S ₁₂	(14)	S ₂₂
MHz)	(Mag)	(Ang)	(Mag)	(Ang)	(Mag)	(Ang)	(Mag)	(Ang)
00	0.560	-172.9	25.36	152.4	0.016	11.6	0.202	-113.5
200	0.643	-175.1	21.09	131.1	0.018	12.6	0.323	-135.0
300	0.698	179.5	17.30	115.2	0.019	11.5	0.389	-149.6
100	0.726	173.6	14.41	103.0	0.021	10.0	0.423	-160.4
500	0.737	168.0	12.29	93.0	0.022	9.3	0.439	-168.5
500	0.743	162.6	10.73	84.4	0.024	7.9	0.446	-175.4
700	0.740	157.3	9.56	76.6	0.025	6.1	0.446	178.8
300	0.732	152.2	8.66	69.2	0.027	4.4	0.442	173.7
900	0.721	147.0	7.98	62.1	0.029	2.3	0.434	169.1
1000	0.705	141.8	7.44	55.1	0.031	-0.1	0.423	164.9
1100	0.684	136.5	7.02	48.0	0.033	-2.9	0.409	161.0
1200	0.657	131.0	6.70	40.7	0.036	-6.2	0.391	157.7
1300	0.622	125.4	6.45	33.0	0.039	-10.5	0.369	155.0
1400	0.578	119.6	6.26	24.9	0.043	-15.3	0.345	153.3
500	0.521	113.9	6.11	16.0	0.047	-21.2	0.318	153.1
1600	0.450	108.6	5.98	6.3	0.051	-28.1	0.292	155.3
1700	0.362	104.9	5.84	-4.5	0.056	-36.2	0.277	160.7
1800	0.262	104.9	5.65	-16.6	0.050	-45.9	0.281	168.5
1900	0.182	126.9	5.37	-29.7	0.063	-57.0	0.314	175.2
2000	0.205	162.7	4.97	-43.8	0.065	-69.2	0.372	177.3
2100	0.322	175.0	4.44	-58.1	0.065	-82.0	0.441	174.7
2200	0.322	172.5	3.83	-72.1	0.063	-94.4	0.503	169.0
				-72.1				
2300	0.571 0.664	165.3	3.21	-85.1	0.059 0.054	-106.3	0.552	161.9
2400		157.0	2.63			-117.3	0.585	154.5
2500	0.733	148.7	2.12	-107.4	0.049	-127.1	0.605	147.1
2600	0.783	140.9	1.69	-116.6	0.044	-136.3	0.615	140.1
2700	0.819	133.7	1.33	-124.7	0.040	-144.6	0.619	133.6
2800	0.844	126.9	1.04	-131.8	0.036	-152.1	0.618	127.4
2900	0.863	120.6	0.80	-137.9	0.033	-159.6	0.615	121.6
3000	0.879	114.7	0.61	-143.2	0.030	-167.4	0.610	116.0
3100	0.890	109.0	0.45	-147.3	0.027	-174.5	0.604	110.5
3200	0.899	103.5	0.32	-149.9	0.025	178.5	0.598	105.1
3300	0.907	98.1	0.22	-149.4	0.023	171.1	0.591	99.8
3400	0.912	92.9	0.13	-141.9	0.021	163.9	0.584	94.5
3500	0.916	87.7	0.08	-116.1	0.020	156.3	0.578	89.2
3600	0.920	82.7	0.08	-72.4	0.019	147.9	0.571	84.0
3700	0.923	77.7	0.11	-50.8	0.018	139.7	0.564	78.6
3800	0.925	72.8	0.15	-44.8	0.018	132.0	0.559	73.3
3900	0.926	67.8	0.19	-44.3	0.017	124.0	0.553	67.8
4000	0.927	62.8	0.22	-46.2	0.017	115.6	0.548	62.4
4100	0.928	57.9	0.24	-49.3	0.017	107.0	0.544	56.9
4200	0.928	53.0	0.27	-53.0	0.017	99.4	0.541	51.4
4300	0.929	48.1	0.28	-57.0	0.017	91.1	0.539	45.9
1400	0.929	43.1	0.30	-61.3	0.018	84.0	0.537	40.3
4500	0.929	38.2	0.31	-65.8	0.018	76.6	0.536	34.8
4600	0.929	33.3	0.32	-70.4	0.019	69.8	0.536	29.3
1700	0.928	28.5	0.33	-75.1	0.019	62.8	0.537	23.8
1800	0.920	23.6	0.33	-79.8	0.019	56.7	0.539	18.4
4900 4900	0.929	18.7	0.33	-84.6	0.020	50.3	0.559	13.0
5000	0.928	13.9	0.34	-89.4	0.020	44.4	0.544	7.6
1000	0.920	13.7	0.04	-09.4	0.021	77.4	0.544	7.0

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

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Typical Scattering Parameters (Vd = +4.76V, lcc = 118 mA, T = 23°C, device in a 50 ohm system)

Frequency	:	s ₁₁		s ₂₁		s ₁₂		s ₂₂
(MHz)	(Mag)	(Ang)	(Mag)	(Ang)	(Mag)	(Ang)	(Mag)	(Ang)
5100	0.928	9.1	0.34	-94.2	0.022	39.0	0.548	2.3
5200	0.927	4.3	0.33	-99.0	0.023	33.6	0.552	-3.0
5300	0.926	-0.5	0.33	-103.9	0.023	28.5	0.557	-8.2
5400	0.925	-5.4	0.33	-108.7	0.024	23.5	0.562	-13.4
5500	0.925	-10.1	0.32	-113.4	0.025	18.9	0.569	-18.4
5600	0.924	-14.9	0.32	-118.3	0.026	14.2	0.575	-23.4
5700	0.922	-19.8	0.31	-123.0	0.026	9.3	0.583	-28.1
5800	0.921	-24.4	0.31	-127.9	0.027	4.9	0.590	-33.0
5900	0.920	-29.1	0.30	-132.5	0.028	0.7	0.598	-37.6
5000	0.918	-33.8	0.29	-137.2	0.028	-3.8	0.606	-42.1
5100	0.916	-38.5	0.28	-141.8	0.029	-8.2	0.614	-46.5
5200	0.915	-43.1	0.27	-146.4	0.029	-11.9	0.622	-50.7
5300	0.913	-47.6	0.26	-150.8	0.030	-16.0	0.631	-54.9
5400	0.912	-52.1	0.25	-155.3	0.031	-19.7	0.639	-58.9
5500	0.912	-56.6	0.24	-159.7	0.031	-23.6	0.647	-62.8
5600 5600	0.908	-60.9	0.24	-164.1	0.031	-27.3	0.656	-66.7
5700	0.908	-65.1	0.23	-168.3	0.032	-31.0	0.664	-70.4
5800	0.900	-69.4	0.22	-172.5	0.032	-34.5	0.671	-74.0
5900 5900	0.904	-73.5	0.22	-172.5	0.032	-34.5	0.678	-74.0
7000	0.899	-77.6	0.21	179.2	0.032	-41.3	0.685	-81.0
7100	0.899	-77.0	0.20	179.2	0.033	-41.5 -44.7	0.693	-81.0
⁷ 200	0.894	-85.5	0.18	171.3	0.034	-48.3	0.699	-87.8
7300	0.892	-89.4	0.17	167.4	0.034	-51.3	0.707	-91.1
7400	0.889	-93.3	0.16	163.5	0.034	-55.1	0.712	-94.3
7500	0.884	-97.1	0.16	159.9	0.034	-58.1	0.719	-97.4
7600	0.882	-100.8	0.15	156.1	0.034	-61.3	0.724	-100.5
7700	0.880	-104.5	0.14	152.3	0.035	-64.5	0.731	-103.5
7800	0.875	-108.1	0.13	149.0	0.035	-67.2	0.737	-106.4
7900	0.873	-111.7	0.13	145.2	0.035	-70.2	0.742	-109.3
8000	0.871	-115.2	0.12	141.7	0.035	-72.8	0.747	-112.0
3100	0.868	-118.7	0.11	138.3	0.035	-75.3	0.752	-114.8
3200	0.866	-122.1	0.11	135.6	0.035	-78.7	0.757	-117.5
3300	0.862	-125.5	0.10	131.9	0.036	-81.1	0.761	-120.1
3400	0.860	-128.7	0.10	128.8	0.035	-84.1	0.765	-122.7
3500	0.857	-132.0	0.09	125.6	0.036	-86.6	0.768	-125.2
3600	0.853	-135.2	0.09	122.6	0.036	-89.5	0.771	-127.8
3700	0.850	-138.3	0.08	119.6	0.036	-92.2	0.775	-130.4
3800	0.847	-141.2	0.08	116.6	0.036	-94.9	0.778	-132.9
3900	0.844	-144.3	0.07	113.9	0.036	-97.7	0.780	-135.3
9000	0.841	-147.2	0.07	111.1	0.037	-100.3	0.783	-137.8
9100	0.836	-150.1	0.06	108.5	0.037	-103.2	0.785	-140.2
9200	0.832	-153.0	0.06	105.8	0.037	-105.8	0.786	-142.7
9300	0.827	-155.9	0.06	103.0	0.037	-108.2	0.788	-145.1
9400	0.823	-158.7	0.05	100.1	0.037	-110.7	0.790	-147.5
9500	0.818	-161.6	0.05	97.9	0.037	-113.4	0.792	-149.9
9600	0.811	-164.3	0.05	95.0	0.037	-115.9	0.793	-152.3
9700	0.806	-167.0	0.04	92.7	0.037	-118.2	0.793	-154.6
9800	0.802	-169.7	0.04	90.3	0.037	-120.3	0.795	-156.9
9900	0.798	-172.3	0.04	88.3	0.037	-122.7	0.795	-159.2
10000	0.793	-174.8	0.04	86.7	0.037	-125.5	0.796	-161.5

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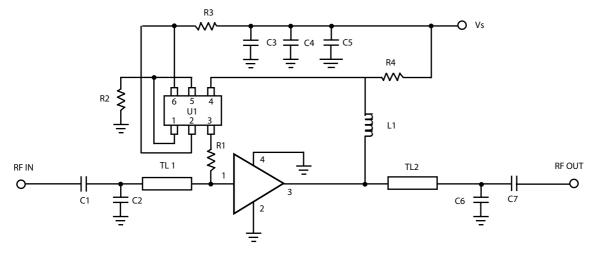


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RoHS

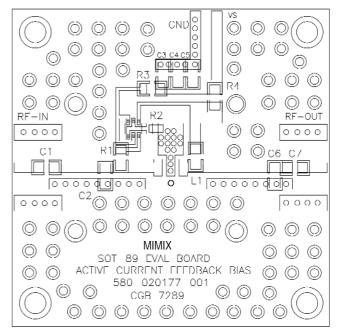
Application Circuit - Active Bias, V Supply = 5V

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



Ref Designator	850 MHz Value	1950 MHz Value	2140 MHz Value	Description / Size
C1, C7	100 pf	68 pf	68 pf	PHYC 0805 NPO
C2	5.6 pF	DNP	DNP	PHYC 0805 NPO 5%
C3	0.1 µF	0.1 µF	0.1 µF	VITR 0.1 µF 0604 X7R
C4	1000 pF	1000 pF	1000 pF	PHYC 0805 NPO
C5	68 pF	22 pF	22 pF	PHYC 0805 NPO
C6	DNP	1.2 pF	0.5 pF	PHYC 0603 NPO
L1	33 nH	22 nH	22 nH	TOKO 0603 10%
R1	750 Ω	750Ω	750 Ω	KOA 0805 5% 1/8W
R2	1.8K Ω	1.8K Ω	1.8K Ω	KOA 0603 1% 1/16W
R3	220Ω	220 Ω	220 Ω	KOA 0805 1% 1/8W
R4	4.3 Ω	4.3 Ω	4.3 Ω	KOA 0805 1% 1/8W
U1	UMZ1N	UMZ1N	UMZ1N	KOA 0805 1% 1/8W
TL1	13 deg	N/A	N/A	
TL2	N/A	45 deg	49 deg	

Active Bias Evaluation Board Layout



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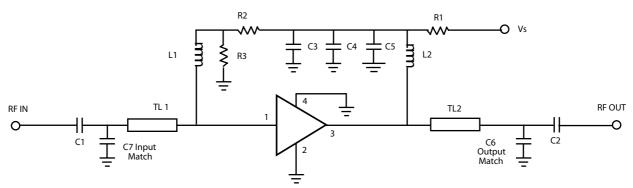
Application Circuit - Passive Bias, V Supply = 8V

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

Recommended Bias Resistor Values for ID = 120 mA								
Supply Voltage (V)	7V	8V	9V	10V	12V			
Rbias (R1 Description: 1206 1/4W 1%)	18Ω	27Ω	_	_	_			
Rbias (R1 Description: 1210 1/2W 1%)	—	—	36Ω	43Ω	62Ω			

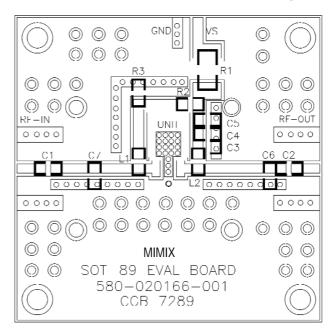
Note: Rbias provides DC bias stability over temperature.

Application Schematic



Ref Designator	850 MHz Value	1950 MHz Value	2140 MHz Value	Description / Size
C1, C2	1000 pf	1000 pf	1000 pf	PHYC 0805 NPO
C3	DNP	DNP	DNP	—
C4	DNP	DNP	DNP	—
C5	1µF	1µF	1µF	0805 X7R
C6	DNP	1.2 pF	0.5 pF	PHYC 0603 NPO
C7	5.6 fH	DNP	DNP	PHYC 0805 NPO 5%
L1	33 nH	22 nH	22 nH	Coilcraft 0603 10%
L2	33 nH	22 nH	22 nH	Coilcraft 0603 10%
R1	27Ω	27Ω	27Ω	KOA 2010 5% 3/4W
R2	391Ω	391 Ω	391 Ω	KOA 0805 1% 1/8W
R3	182Ω	182Ω	182 Ω	KOA 0805 1% 1/8W
EL1	13 deg	N/A	N/A	
EL2	N/A	45 deg	49 deg	

Passive Bias Evaluation Board Layout



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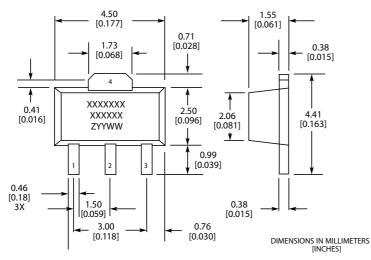
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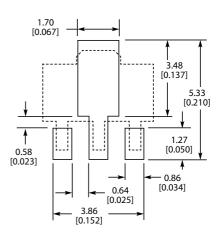


CGB7289-SC

RoHS

Physical Dimensions - SC Package (SOT-89)





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



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Handling and Assembly Information

CAUTION! - Mimix Broadband MMIC Products contain gallium arsenide (GaAs) which can be hazardous to the human body and the environment. For safety, observe the following procedures:

- Do not ingest.
- Do not alter the form of this product into a gas, powder, or liquid through burning, crushing, or chemical processing as these by-products are dangerous to the human body if inhaled, ingested, or swallowed.
- Observe government laws and company regulations when discarding this product. This product must be discarded in accordance with methods specified by applicable hazardous waste procedures.

Life Support Policy - Mimix Broadband's products are not authorized for use as critical components in life support devices or systems without the express written approval of the President and General Counsel of Mimix Broadband. As used herein: (1) Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user. (2) A critical component is any component of a life support device or system, or to affect its safety or effectiveness.

Package Attachment - This packaged product from Mimix Broadband is provided as a rugged surface mount package compatible with high volume solder installation. Care should be taken not to apply heavy pressure to the top or base material to avoid package damage. Vacuum tools or other suitable pick and place equipment may be used to pick and place this part. Care should be taken to ensure that there are no voids or gaps in the solder connection so that good RF, DC and ground connections are maintained. Voids or gaps can eventually lead not only to RF performance degradation, but reduced reliability and life of the product due to thermal stress.

Mimix Lead-Free RoHS Compliant Program - Mimix has an active program in place to meet customer and governmental requirements for eliminating lead (Pb) and other environmentally hazardous materials from our products. All Mimix RoHS compliant components are form, fit and functional replacements for their non-RoHS equivalents. Lead plating of our RoHS compliant parts is 100% matt tin (Sn) over copper alloy and is backwards compatible with current standard SnPb low-temperature reflow processes as well as higher temperature (260°C reflow) "Pb Free" processes.

Ordering Information

Part Number for Ordering Description CGB7289-BD Bare die in GelPak CGB7289-SC-0G00 Matte Tin plated RoHS compliant SOT-89 surface mount package in bulk guantity CGB7289-SC-0G0T Matte Tin plated RoHS compliant SOT-89 surface mount package in tape and reel CGB7289-SP-0G00 Matte Tin plated RoHS compliant SOT-86 surface mount package in bulk quantity CGB7289-SP-0G0T Matte Tin plated RoHS compliant SOT-86 surface mount package in tape and reel PB-CGB7289-SC-0000 Evaluation Board for SOT-89 packaged device with SMA connectors PB-CGB7289-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

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