

2.0-6.0 GHz GaAs MMIC Low Noise Amplifier



August 2006 - Rev 02-Aug-06

CMMI200

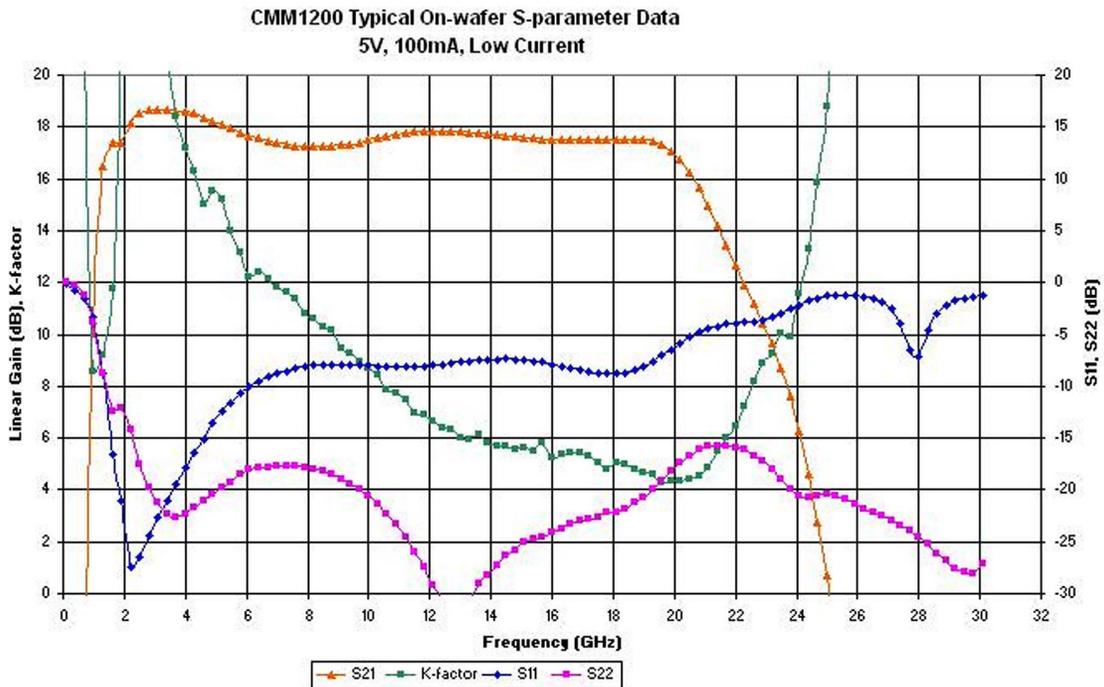
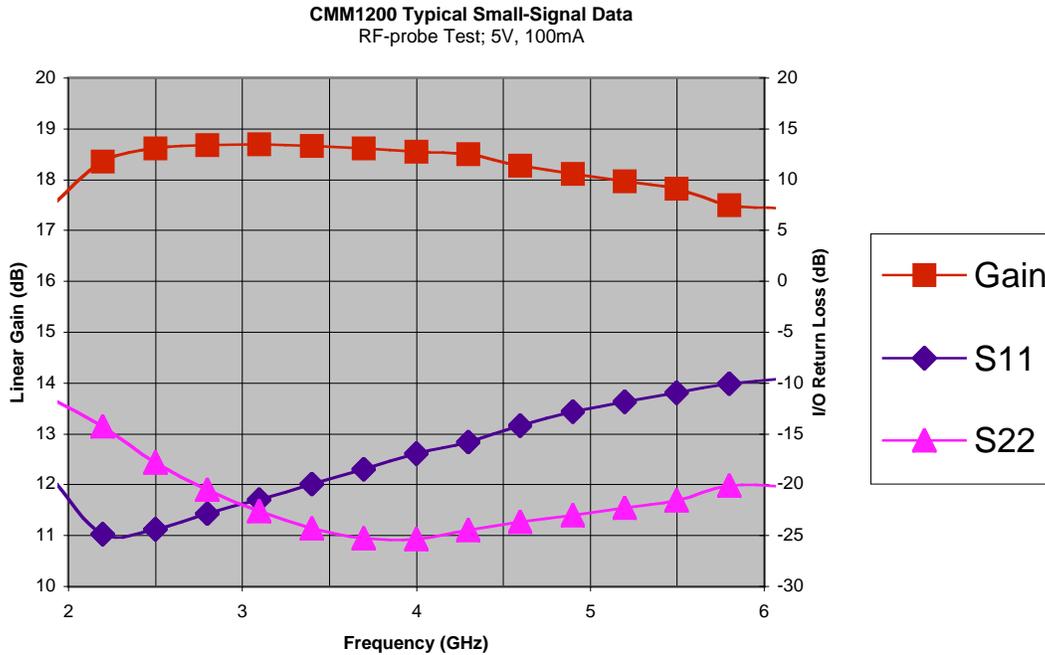
Typical On-Wafer Scattering Parameters (Vd = +5.0V, Icc = 101 mA, T = 23°C, device in a 50 ohm system)

Frequency (MHz)	S ₁₁		S ₂₁		S ₁₂		S ₂₂	
	(Mag)	(Ang)	(Mag)	(Ang)	(Mag)	(Ang)	(Mag)	(Ang)
0.10	0.813	-0.57	0.001	0.00	0.000	0.00	0.970	-0.23
1.00	-0.461	0.50	-1.411	-3.07	0.004	0.00	-0.474	-0.44
1.90	0.060	0.07	1.612	7.22	-0.001	0.00	-0.245	-0.03
2.20	0.041	-0.01	5.064	6.32	0.000	0.00	-0.192	0.04
2.50	0.008	-0.05	7.462	3.94	-0.001	0.00	-0.127	0.04
3.40	-0.021	-0.09	7.667	-3.82	0.000	0.00	-0.077	0.00
3.70	-0.023	-0.10	6.413	-5.62	0.001	0.00	-0.074	-0.01
4.00	-0.027	-0.13	4.857	-6.95	0.002	0.00	-0.075	-0.02
4.90	-0.059	-0.20	-0.337	-8.14	0.003	0.00	-0.092	-0.03
5.20	-0.085	-0.22	-1.893	-7.81	0.003	0.00	-0.099	-0.03
5.50	-0.111	-0.24	-3.305	-7.21	0.004	0.00	-0.106	-0.03
5.80	-0.140	-0.26	-4.492	-6.28	0.004	0.00	-0.117	-0.03
6.10	-0.179	-0.26	-5.314	-5.42	0.005	0.00	-0.126	-0.01
7.00	-0.267	-0.25	-7.084	-2.16	0.005	0.00	-0.128	0.02
7.90	-0.338	-0.20	-7.165	1.27	0.004	0.00	-0.117	0.05
8.20	-0.355	-0.18	-6.874	2.35	0.004	0.00	-0.109	0.06
8.50	-0.368	-0.16	-6.436	3.37	0.004	0.00	-0.100	0.07
9.10	-0.387	-0.11	-5.152	5.20	0.003	-0.01	-0.077	0.08
10.00	-0.395	-0.06	-2.289	7.12	0.001	-0.01	-0.036	0.09
10.90	-0.392	-0.01	1.328	7.55	0.000	-0.01	0.000	0.07
12.10	-0.394	0.05	5.852	5.16	-0.004	-0.01	0.027	0.02
13.00	-0.394	0.12	7.603	1.63	-0.007	-0.01	0.024	-0.02
13.90	-0.368	0.21	7.341	-2.28	-0.009	0.00	0.002	-0.04
14.50	-0.324	0.28	6.104	-4.58	-0.009	0.00	-0.016	-0.05
15.10	-0.253	0.34	4.167	-6.32	-0.010	0.00	-0.033	-0.04
16.00	-0.101	0.39	0.436	-7.50	-0.010	0.00	-0.053	-0.03
17.20	0.125	0.35	-4.701	-5.86	-0.006	0.01	-0.072	0.00
18.10	0.262	0.25	-7.183	-2.26	-0.003	0.01	-0.065	0.04
19.00	0.369	0.13	-7.082	2.49	0.003	0.01	-0.021	0.09
20.20	0.501	-0.10	-1.719	6.64	0.010	0.01	0.117	0.07
21.10	0.481	-0.36	2.707	4.90	0.012	0.00	0.152	-0.06
22.00	0.348	-0.53	4.002	1.55	0.008	-0.01	0.080	-0.14
23.20	0.198	-0.65	2.532	-1.66	0.000	-0.01	-0.012	-0.12
24.10	0.078	-0.78	0.354	-2.02	-0.005	-0.01	-0.019	-0.09
25.00	-0.150	-0.85	-0.597	-0.90	-0.006	0.00	-0.022	-0.09
26.20	-0.437	-0.73	-0.379	-0.17	-0.006	0.00	-0.033	-0.07
26.80	-0.537	-0.60	-0.265	-0.05	-0.004	0.00	-0.033	-0.07
28.00	-0.204	-0.39	-0.136	-0.02	-0.002	0.00	-0.028	-0.05
29.20	-0.466	-0.67	-0.076	0.03	-0.003	0.00	-0.011	-0.04
30.10	-0.637	-0.58	-0.040	0.03	-0.001	0.00	0.011	-0.04

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

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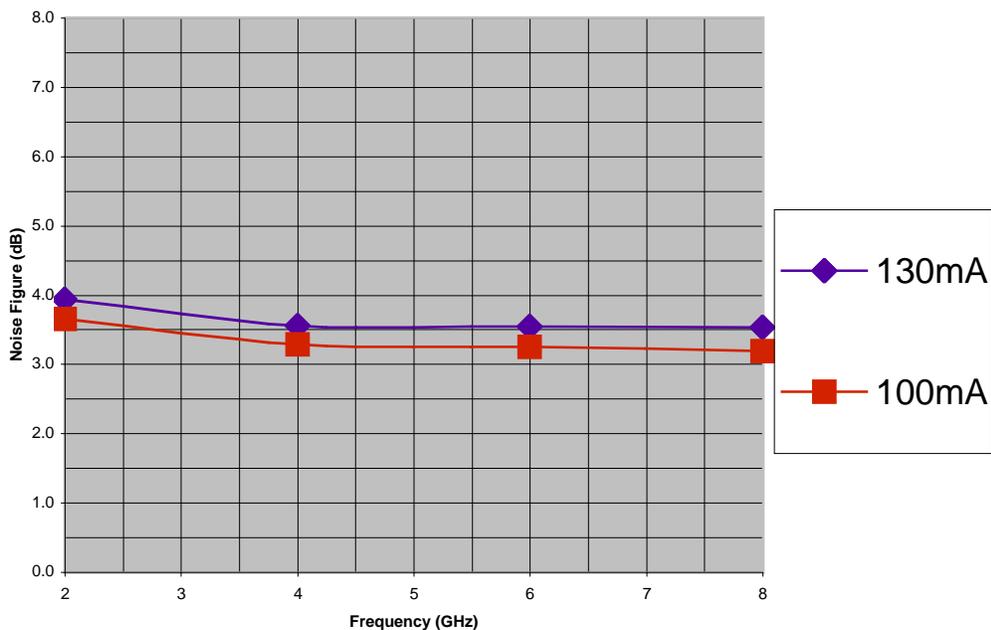
Typical Narrow and Wideband S-Parameter Performance



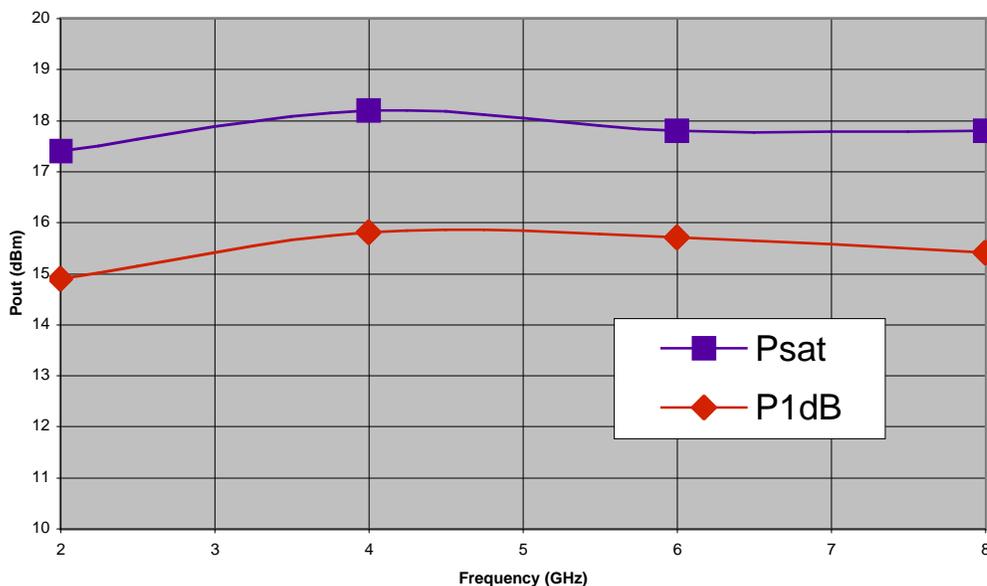
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Typical Noise and Power Performance

CMM1200 Typical Noise Figure Data
Connectorized Fixture; Vdd=5V

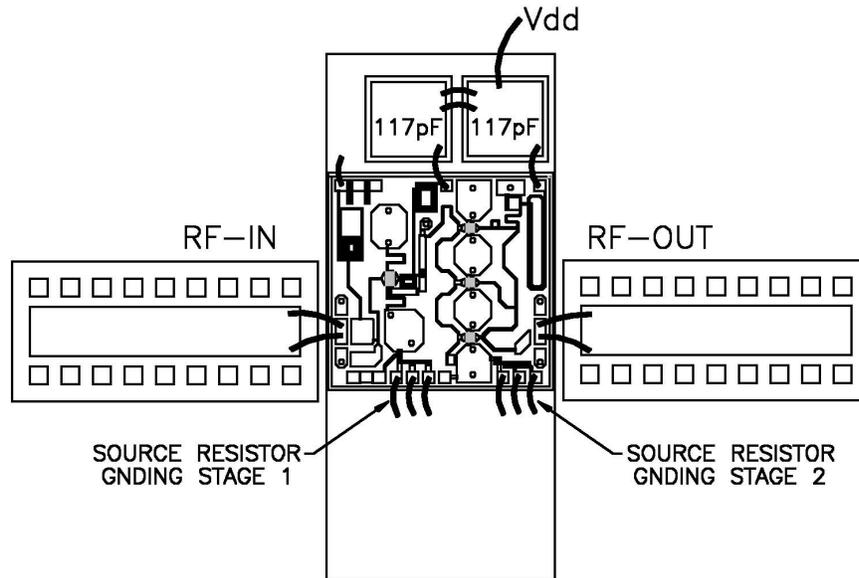


CMM1200 Typical Power Data
Connectorized Fixture; 5V, 100mA



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Assembly Example



Ordering Information

The CMM1200-BD is available in bare die and is shipped in Gel Pak.

Part Number for Ordering
CMM1200-BD

Package
Bare Die